

6270/6881
FIGURE 5792

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRLAEYLYRYGYTRVAEMRGESKSLGPALLLLQ
KQLSLPETGELDSATLKAMRTPRCGVDPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSA
VTPLTFTRVYSRDADIVIQFGVAEHGDGYFPDGDGLLAHAFPPGPGIQGDAHFDDELWSLGKGVVVPTRFGNA
DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRDGNADGKPCQFPFIFQGQSYS
ACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT
TSNFDSDKKWGFCDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE
PRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIA
EIGNQLYLFDGKYWRFSEGRGSRPQGPFLLIADKWPALPRKLDVFEELSKKLFFFSGRQVWVYTGASVLGPRR
LDKLGLGADVAQVTGALRSRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVFQYREKAYFCQ
DRFYWRVSSRSELNQVDQVGYVTYDILQCPED

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FIGURE 5793

ACTTCCGGTGGGGAGATTCCGGCCTGGAGCTCCCAGGGCCGAGCAGACCTTGGGACCTGTGAGCGCTGCATCCAA
TTAACCATGGGAAGGGTCAGCACCAGCCACCAGCCCCCTTAGGTGAGGACTCTGCCTGGGGCTCTGCTGATGGTTC
CGAATCATGGAGCTGCAGAGAGCTCCTCCAGCCTGGAGACGTTCTTGGTGAAAGCTGGGTCTAACTCCACCGGC
TCTTCTGCACATTGTATTCAAGAGGGGTGCCCTGCCCCGCTGACTCAGGAGCTCCGGTGCTGCAGCCGCCACGA
ATGGGGAGGTGGGCCCTCGATGTGGCCTTTTTGTGGAAGGCGGTGTTGACCCTGGGGCTGGTGCTTCTCTACTAC
TGCTTCTCCATCGGCATCACCTTCTACAACAAGTGGCTGACAAAGAGCTTCCATTTCCTTCTTTCATGACGATG
CTGCACCTGGCCGTGATCTTCTCTTCTCCGCCCTGTCCAGGGCGCTGGTTCAGTGCTCCAGCCACAGGGCCCCT
GTGGTGCTGAGCTGGGCCGACTACCTCAGAAGAGTGGCTCCCACAGCTCTGGCGACGGCGCTTGACGTGGGCTTG
TCCAACTGGAGCTTCTGTATGTACCGTCTCGCTGTACACAATGACCAAATCCTCAGCTGTCTCTTTCATCTTG
ATCTTCTCTCTGATCTTCAAGCTGGAGGAGCTGCGCGCGGCACTGGTCTTGGTGGTCTCTCTCATCGCCGGGGGT
CTCTTCATGTTACCTACAAGTCCACACAGTTCAACGTGGAGGGCTTCGCCTTGGTGCTGGGGGCCCTCGTTTCATC
GGTGGCATTTCGCTGGACCCTCACCCAGATGCTCCTGCAGAAGGCTGAACTCGGCCTCCAGAATCCCATCGACACC
ATGTTCCACCTGCAGCCACTCATGTTCTGGGGCTCTTCCCTCTCTTTGCTGTATTGAAGGTCTCCATTGTGCC
ACATCTGAGAAAATCTTCCGTTTCCAGGACACAGGGCTGCTCCTGCGGGTACTTGGGAGCCTCTTCTTGGCGGG
ATTCTCGCCTTTGGTTTGGGCTTCTCTGAGTTCTCCTGGTCTCCAGAACCTCCAGCCTCACTCTCTCCATTGCC
GGCATTTTTAAAGGAAGTCTGCACCTTGCTGTTGGCAGCTCATCTGCTGGGCGATCAGATCAGCCTCCTGAACTGG
CTGGGCTTCGCCCTCTGCCTCTCGGGAATATCCCTCCACGTTGCCCTCAAAGCCCTGCATTCCAGAGGTGATGGT
GGCCCCAAGGCCTTGAAGGGGCTGGGCTCCAGCCCCGACCTGGAGCTGCTGCTCCGGAGCAGCCAGCGGGAGGAA
GGTGACAATGAGGAGGAGGAGTACTTTGTGGCCAGGGGCAGCAGTGACCAGCCAGGGCAAATGGCTTAGAAGCA
GGCCACTCCCCAGCCTGCTGCCAGCACTCACTGTGCTCAAGCCGCCAGGGCTCATCATGGTAGCTGGGAGCTGTG
GACGGGAGTCACCAGGTGGTGGGGCCAAGCCAGGGACTIONGACTTTTGCCCTCCCTTCAGAGCCTGGTCACAC
AAGGGGCGAGCACCAGGCCAGCCTGGGACTGGCCAGAGCTGGGCCCAAGCTGCGCTGGAATCGCAGCAGGAGAGG
GGAGTGGGCTGGTTCTTCCCACCACTTCCCAGGCTCTGACAGCCGAGACTCATTTCCAAGGCACAGCAGCTTTCT
AAAGGGACTGAGTTTGGACTGGGTTTTGGACCTCCAGGGGCTGGAGCTTCATCACCTGGGCAGTGTCTTTTCTCA
GAGAGCAGGTTTCTTTATAGTTTGGAATAAATGTTTACGGTCCACTGGCCGCCTTGTTGTGCTGGAGACGTGG
GGGCAGGGAGGGGACAGTGTGGGCTGGCCTCTCTTTCTTTCCCTGCCTGGAGCCTTCTTCAAATGTCTGGTC
TTAAGCCAGGCCTCCTTCATTTCTCGCTCCTGTAGAACACCAGTCCCCCTCCCAGTGGGGCCCCACTGCACCT
GCTGGCAGGAAATAAATGAATGTTTACTGAGTACTGCA

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FIGURE 5794

GCGCGCTCTGCTCGGCTGCAGGCTCAGGAAGCGGCGCGGCGGCACGTGCTGGGCCAGAGCCCCGCGCCCTGCGTC
CAGCCGCCGGGTGTGTGCGCCCGCTAGCCAGCGTCGCGCCTCGGCGCCCCACGCGCCACGCAGCGGCGCGG
GGACCCGGGCGGGGCGAGGGAGGGCCCGGCCAGGGAGGAGAAGGGGCGGTCTCTCCGGCGCAGGCAGCAGC
CGCGGCAGCCAGGAGGCGGAGGCAGCGGCAACGGCAGAGACAGCAACGTGCCCGCCGAGTCAGCCCGCCTCG
TCGGACCCGCACCGGCCCGCCCGCCCGCCGACCGCGTCGGGGCGCCCTCTCCACTGCGCGCGGTACAAGGAAA
TGGTAGAACTAGTGATCTACCCAGCCTCACTGTAAACAGCGATTGTCTGGATAAACTGAAGTTAAACCGTGCTG
ACGTGCTGTGTGGACTCTGAGTGACAGACAAGGCATCACCAAATCGGCCCCCTGAGAGTGTCCAGCTCTTCT
CCAGATCTTGCCACGTGTCTCCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGCCAGACGCAGTACAGTG
CGGGGATCCAGCAGGCTACCCCTATACAGCTTACCCACCTCCAGCACAAAGCCTATGGAATCCCTTCCTACAGCA
TCAAGACAGAAGACAGCTTGAACCATTCCTTGCCAGAGTGGATTCTCAGCTATGGCTCCAGCTTCAGCACCT
CACCCACTGGACAGAGCCCATACACTACCAGATGCACGGCACAACAGGGTTCTATCAAGGAGGAAATGGACTGG
GCAACGCAGCCGGTTTCGGGAGTGTGCACCAGGACTATCCTTCCTACCCCGGCTTCCCCAGAGCCAGTACCCCC
AGTATTACGGCTCATCTACAACCTCCCTACGTCCCGGCCAGCAGCATCTGCCCTTCGCCCTCTCCACGTCCA
CCTACGTCTCTCAGGAGGCATCTCACAACGTCCCCAACCAGAGTTCCGAGTCACTTGCTGGTGAATACAACACAC
ACAATGGACCTTCCACACCAGCGAAAGAGGGAGACACAGACAGGCCGACCGGGCCTCCGACGGGAAGCTCCGAG
GCCGGTCTAAGAGGAGCAGTGACCCGTCCCGGCAGGGGACAATGAGATTGAGCGTGTGTTCTGTGGGACTTGG
ATGAGACAATAATTATTTTCACTCCTTACTCACGGGGACATTTGCATCCAGATACGGGAAGGACACCACGACGT
CCGTGCGCATTGGCCTTATGATGGAAGAGATGATCTTCAACCTTGAGATACACATCTGTTCTTCAATGACCTGG
AGGATTGTGACCAGATCCACGTTGATGACGTCTCATCAGATGACAATGGCCAAGATTTAAGCACATACAACCTTCT
CCGCTGACGGCTTCCACAGTTTCGGCCCCAGGAGCCAACCTGTGCCTGGGCTCTGGCGTGCACGGCGGCGTGGACT
GGATGAGGAAGCTGGCCTTCCGCTACCGGCGGGTGAAGGAGATGTACAATACCTACAAGAACAACGTTGGTGGGT
TGATAGGCACTCCCAAAAGGGAGACCTGGCTACAGCTCCGAGCTGAGCTGGAAGCTCTCACAGACCTCTGGCTGA
CCCCTCCCTGAAGGCACTAAACCTCATCAACTCCCGGCCCAACTGTGTCAATGTGCTGGTCAACCACTCAAC
TAATTCCTGCCCTGGCCAAAGTCCTGCTATATGGCCTGGGGTCTGTGTTTCTATTGAGAATCTACAGTGCAA
CCAAGACAGGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATTCCGGCAGAAAAGCTGTCTACGTGGTGATCG
GTGATGGTGTGGAAGAGGAGCAAGGAGCGAAAAAGCACAAACATGCCTTTCTGGCGGATATCTGCCACGCAGACC
TGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATTTATAGCAGGATCAGCAGCATCTCCACCTGCCATCTCACC
CTCAGACCCCTCGCCTTCCCCACCTCCCCACCGAGAACTCCAGAGACCCAGATGTTGGACACCAGGAAGGGGCC
CCACAGCCGAGACGACGTGTCCAGTGACCATCTCAGAAGCCGTCCATCAGTCCAAATGGGGGTCTGAGAAGGAA
AGTACCCAACATTGGCTTCGGAGTATTTGACTTTGGGGAAAAGGGCTGGCTCGGAGTCTAGACTCTTCTGTAAGA
CTCACAGAACAAAAGCAAGGAATTGCTGATTTGGGGGTGCTGGTGATGAGGAGGGGATGGGTTTGTCTTGTCT
TCTTTTAAATTTATGGACTAGTCTCATTACTCCGGAATTATGCTCTTGTACCTGTGTGGCTGGGTTTCTTAGTCG
TTGGTTTGGTTTGGTTTTTTGAACTGGTATGTGGGTGGTTACAGTTCTAATGTAAGCACTCTATTCTCCAAGT
TGTGCTTTGTGGGACAAATCATTCTTTGAACATTAGAGAGGAAGGCAGTTCAAGCTGTTGAAAAGACTATTGCTT
ATTTTGTTTTTAAAGACCTACTTGACGTGATGTGGACAGTGACGTGCCCTACGCTACATCTTGTCTTAGGA
AGAGGGGGATGCTGGGAAGGAATGGGTGCTTTGTGATGGATAAAAGGCATTAAATAAAACCACGTTTACATTTT

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FIGURE 5795A

CGGCGCCGCGCGGCCGCGCTAGAAATGGAGGCGCCAGCGGCAGCGAGCCCGGCGGCGACGGGGCCGGGGACTGCG
CCCACCCGGAGCCCCGGGGCCCTGGCGCCGCGGCGCCAGCTCCGGCCCCGGCCCGTGC GCGGCCGCCCCGGAGT
CCGAGCGCCAGCTGCGCCTCCGCCTCTGCGTCTCAACGAGATCTTGGGCACCGAGAGGGACTACGTGGGCACCT
TGCGCTTCTTGCACTCGGCATTCTGTCATCGCATCCGGCAGAACGTGGCCGACTCAGTGGAGAAGGGCCTCACGG
AGGAGAATGTCAAGGTCTGTTCTCGAACATCGAAGACATCCTGGAAGTTCATAAGGATTCTTGGCCGCTTGG
AGTATTGTTTACACCCGGAGCCGAGTCTCAGCATGAACTTGGGAATGTTTTCTTAAAATTCAAGGACAAGTTCT
GCGTGTACGAGGAGTATTGCAGCAACCATGAGAAAGCCCTGAGGCTGCTGGTGGAGCTGAACAAGATCCCTACCG
TGCGCGCCTTCCTTTTGAGCTGCATGCTTCTGGGAGGCCGGAAGACCACGGACATCCCTTTGGAAGGCTACCTGT
TGTCTCCGATCCAGAGGATCTGCAAGTACCCGCTCCTCCTTAAGGAGCTGGCCAAGAGGACTCCCGGCAAGCACC
CAGACCACCCCGGGTCCAGAGTGCCCTGCAGGCCATGAAGACCGTTTGTCTCAACATCAATGAGACCAAGCGGC
AGATGGAGAAGCTGGAAGCCCTGGAGCAGCTGCAGTCCACATCGAAGGCTGGGAGGGTTCCAACCTCACAGACA
TCTGCACTCAGCTCCTCCTGCAAGGGACTTTGTTAAAGATCTCTGCGGGCAACATCCAGGAAAGGGCCTTCTTCC
TCTTCGACAACCTTCTCGTCTACTGCAAGCGGAAATCCAGGGTACC GGGAGCAAGAAGTCCACCAAGAGGACCA
AATCCATCAACGGCTCCCTCTACATCTTCAGGGTTCGAATCAACACTGAAGTCATGGAGTGGAGAATGTGGAAG
ATGGGACAGCGGATTACCATAGCAACGGCTATACCGTCACCAACGGCTGGAAGATCCACAACACGGCCAAGAATA
AGTGGTTTGTCTGCATGGCCAAGACGGCAGAGGAGAAGCAGAAGTGCTGGATGCCATCATCCGCGAGCGGGAGC
AGCGCGAGAGCCTGAAGCTGGGCATGGAGCGTGATGCCATCGTATGATTGCGGAGAAGGGGGAGAAGCTGTACC
ACATGATGATGAACAAGAAGGTGAACCTCATCAAGGACCGCCGGAGAAAGCTGAGCACTGTCCCCAAGTGCTTTC
TTGGCAATGAGTTGCTTGGCTGGCTCCTAGAAATGGTGAAATCAGCAAGACGGAAGAAGGAGTCAACTTGGGCC
AAGCCCTGTTGGAGAATGGCATCATCCACCATGTTCCGACAAGCACCAGTTCAAGAAATGAGCAGGTGATGTATC
GCTTCCGCTACGACGATGGCACCTACAAGGCCCGAAGTGAGCTGGAGGACATCATGTCCAAGGGTGTGAGGCTTT
ACTGCCGTCTTCACAGCCTCTACACCCCGGTGATCAAAGACCGTGATTACCACCTGAAGACCTACAAGTCAGTGC
TTCCCGGGAGCAAGCTGGTGGACTGGCTGCTGGCTCAGGGAGACTGCCAGACTCGGGAGGAGGCAGTGGCGCTCG
GCGTGGGTCTGTGCAACAATGGCTTCATGCACCAGTGCTGGAGAAGAGCGAGTTCAGGGATGAGTCCCAGTACT
TCCGCTTTTATGCTGACGAGGAGATGGAGGGGACCAGCAGCAAGAACAACAGCTTCGCAACGACTTCAAGCTGG
TGGAGAACAATTCTGGCCAAGCGCTGCTGATCCTGCCCCAGGAGGAGGACTATGGCTTTGACATCGAGGAGAAGA
ACAAGGCTGTGGTGGTGAAGTCCGTCCAGAGGGGCTCGCTGGCTGAGGTGGCTGGCCTGCAGGTGGGGAGGAAGA
TCTACTCCATCAATGAGGACCTGGTGTTCCTGCGGCCGTTTTTCAGAGGTGGAGTCCATCCTCAACAGTCCCTTCT
GCTCCCGCCGCCCTCTGCGCCTCCTGGTGGCCACGAAGGCCAAAGAGATCATAAAATCCCCGACCAGCCGGACA
CACTGTGCTTCCAGATTTCGTGGAGCTGCCCCACCGTACGTCTATGCTGTGGGGAGAGGCTCTGAGGCCATGGCTG
CAGGGCTCTGTGCTGGTCACTGTCATTCTGAAGGTCAATGGCAGCAACGTGATGAACGATGGTGCCCTGAGGTCC
TGGAGCACTTCCAGGCATTCCGGAGTCGGCGCGAAGAGGCCCTGGGCCTGTACCAGTGGATCTACCACACCCATG
AGGATGCCAGGAAGCAGCAGCCAGTCAAGAGGCCCTCCACTGAGGACCCAGTGGCGAGCAGGCCAGGAGGAAG
ACCAGGCTGATTAGCCTTCCCACTGCTGTCCCTGGGTCCCCGGCTGAGCCTGTGTGAGGACAGCCCCATGGTCA
CCCTGACTGTGGACAACGTGCACCTGGAACACGGCGTGCTGTATGAGTATGTGAGCACGGCAGGCGTCAGGTGCC
ATGTGCTGGAGAAGATCGTGGAGCCCCGCGGCTGCTTCGGCCTCACCGCCAAGATCCTCGAGGCCTTTGCTGCCA
ATGACAGCGTCTTCGTGGAGAACTGCAGGCGGCTCATGGCCCTGAGCAGCGCCATCGTGACCATGCCCCACTTTG
AGTTCCGCAACATCTGTGACACCAAGCTGGAGAGCATTGGCCAGAGGATTGCCTGCTACCAGGAGTTTGCAGCCC
AACTGAAGAGCAGGGTCAGCCCCACCCTTCAAACAAGCCCCCTGGAGCCCCACCCGCTGTGTGGCCTGGACTTCT
GCCCCACCAATTGCCACATCAACCTCATGGAAGTGCTTACCCCAAGACCACCCCTCAGTGGGCAGGTCCCTTCA
GCATCCGCTTTGGACGCAAACCTCCCTCATCGGCCTTGACCCGGAGCAAGGCCACCTGAACCCCATGTCTGATA
CCCAGCACTGCATCACCACCATGGCTGCTCCCTCCTGGAAGTGCTTGCTGCTGCAGAGGGTGATCCCCAAGGCC
AGGGTCTCCATGATGGCAGCTTCGGGCCAGCCAGTGGGACCCCTGGTCAGGAAGACCGGGGCCTCAGCTTCCTAC
TCAAGCAGGAGGACCGTGAGATCCAGGATGCCTACCTGCAGCTCTTCAACCAAGCTGGATGTGGCCCTGAAGGAGA
TGAAGCAATATGTACCCAGATCAACAGGCTGCTGTCCACCATCACAGAGCCACCTCGGGTGGGTCTGCGACG
CATCCTTGGCTGAGGAGGCCTCCTCCCTGCCCCCTGGTCAGTGAAGAGAGCGAGATGGACAGGAGTGACCATGGGG
GCATCAAGAAGGTGTGCTTCAAGGTGGCCGAGGAGGACCAGGAGGACTCAGGCCACGACACCATGAGTTATCGCG
ACTCCTACAGCGAGTGAACAGCAATCGAGACTCGGTCTGTCTTACACAGCGTGAGAAGTAACAGCTCCTACT

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FIGURE 5795B

TGGGCAGCGACGAGATGGGGTCTGGAGATGAGCTGCCCTGTGACATGCGGATCCCATCTGACAAGCAGGACAAGC
TTCATGGCTGCCTGGAGCACCTCTTTAACCAGGTGGACTCCATCAATGCTCTCCTCAAGGGGCCAGTCATGAGCC
GGGCTTTTGAAGAGACCAAGCATTTCCTATGAACCACAGCTTACAAGAGTTTAAACAGAAAGAAGAGTGTACAA
TCCGTGGCCGGAGCCTGATCCAGATTAGCATCCAGGAGGACCCCTGGAACCTCCCCAACTCCATCAAGACCCTGG
TGGACAACATTAGAGATATGTGGAAGATGGGAAGAACCAGCTGCTCCTGGCCTTGCTGAAGTGCACAGACACGG
AGCTGCAGCTGCGCAGAGACGCGATCTTCTGCCAGGCCCTGGTGGCCGCCGTGTGCACCTTCTCCAAGCAGCTGC
TGGCGGCCCTGGGCTACCGCTACAACAACATGGCGAGTACGAGGAGAGCAGCCGCGACGCCAGCCGCAAGTGGC
TGGAGCAGGTGGCGGCCACGGGCGTCTGCTGCACTGCCAGTCCCTGCTCTCGCCAGCCACAGTGAAGGAGGAAC
GGACCATGCTGGAGGACATCTGGGTGACGCTGTGAGAGCTGGACAATGTCACCTTCTCCTTTAAGCAGCTGGACG
AGAATATGTGGCCAACACCAACGTCTTCTACCACATTGAGGGCAGCCGGCAGGCGCTGAAGGTCACTTCTTACC
TCGACAGTACCCTTCTCCAAGCTGCCCTCCCGCTGGAGGGTGGGGCCAGCCTGAGGCTGCACACAGCGCTGT
TCACGAAAGTGTGGAGAACGTGGAGGGGCTGCCCTTCTCCAGGCAGCCAGGCCGCGGAGGATTTGCAGCAGGACA
TCAACGCGCAGTCCCTGGAGAAAGTTTACGAGTATTACCGCAAACCTCAGGGCATTTTACCTGGAGCGGTCTAACC
TGCCACGGATGCCAGCACCGCGGTAAAGATAGACCAGCTGATCCGCCCCATCAATGCCCTGGATGAGCTCT
GCCGCTCATGAAGTCTTTGTCCACCCAAAGCCTGGTGTCTGCTGGGAGTGTGGGCGCCGGCCTCATCCCCATCT
CCTCGGAGCTCTGCTACCGCTGGGGGCTGCCAGATGGTCAATGTGTGGCACAGGCATGCAGAGGAGCACCTGA
GCGTGTCCCTGGAGCAGGCGGCCATCTTGGCACGGAGCCACGGGTTGCTGCCCAAGTGCATCATGAGGCCACGG
ACATCATGCGGAAGCAGGGCCCAAGGGTGGAGATTCTGGCCAAAACCTGCGAGTCAAGGACCAGATGCCCCAGG
GTGCTCCGCGCTCTACCGCTCTGCCAGCCGCCGTGGATGGGGACCTCTGAACACCCAAATGCCCCACGCTGG
GCCGCGCTCTGGAGCTGGGATTTGGGAGGACACAGCAGGCAGCGCTGGCCACCCTCGCTGTGATGACGAGCTG
GCTGATTGGCCCTGGGCGGCCCATCTTTCACAGCCTGCCAGAAGCTGGAGGGGTGCTGGAGACCCATAGAGCT
GATGGGAGCAGCTGGTGCCTGGCCTTCGGCTCTGCTGCCAGAACCAAGGGAACGTATGGAGGCCACATGG
GGCCACCCGCTCCCTCGGATGGCTCCGCTGCACTTTTGAAACCCCGTTTCTTCAACGTCCACATTCCAGG
TGACCACAGTGTCTCCTCCTCATCTTAGCTTCCAGGTTACCCTAACCTGTACTAACCTGCTTGGTGGAC
TTGGAAAAGACTTGGCTCTGTGCGGAAAGGAGAGACGGGGCTCCATCACGCCTGTACCAGAGGATCCCCGAGA
GCCACACCAGCTCTGGACATACCGCCCCCTGGAAGTGGGGCCACCAGCCCTGGGCACGAGATTTGCTCTGACTTT
ATTTATATGGCATGAAATCTCTGGTTTATTTTGGGATTTTTTGTGTTGGTGTGTCTAAAGTTTGTTTTTCTAA
AGTTGTGTGATTATATATTGACATTTTACATTTCAAAGAAAGGTATGTTGTCTAACAGGGGACCAACAGAAGGT
AGTATTGACAACGTCTCTGCTTCTACTAAAAAAAAGAGCACAAAAGAAAACTAAATTATTGAAAAATTAAA
AAATGTCAATGTTTCTGTTTGTAAATATTAGGGTTGTAAGGTGTCGTTTTGAGGTATCGACTGTGATTCCTTCC
CCCACCTCCATTCTCCAGCGGTTGGCCGGTGTAGAACTCGCTCTCTTTGAGTGACTGGCTACAAGGGCCTGAG
AGGTGGCCAGCCAGGGTTGGAGCTGGAGGGGATGGAGCCCCACCTGAGGTGCCGTGTACACGGGTTAGAGGGTC
ACTGGGAAACACCGGGCGGTGGCTTCTGTGATTTATTTTCTTGATGGTAACTTCTCAGAGCAGGGCGATTGGGAC
ATCACCAGCCAGAGCACAGGAAGCCACCCTGCCTGCTGGGGAGGAGGGACCCACACAAGCCCCCTCGGCAGTTTG
TCCCCCAGCTTCGGTATGCCTTCAGGGAAAGGTACAGCTGGGGAGGAAGCGGGGGACGCCTGTACCCCTGG
CAGGTGGTGAGTTTACGGTGGGGGCTCCCTGCTGCCCCAGGCCTGGGAGCTTGAAGCCCTCCCGGCATCTGGCAT
CCGAGCCTCCCGCCCTCCAGGGTGCCTTCCCTCTCTTGCCGAGCATACAGAGGGCAGGCAGTGGCCTTGTCA
CTGTATCTTGATCAGAGACAAAGGAGGACCCGCTTTAGCCCTGCTGCGGAAATGGGGGAGGGCCAGGGCCAG
CGCATTTGTCAGTGGTTTACTTTAAATGTACAGATTCTTCTCGTTAAATTCTTGATAGATTTTTTATTATTATT
AAAAGTCAGTTTATAATAC

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FIGURE 5796A

GCATTCTGGCCCCGCCCTGCAGCGGGCCGCTCGCTCATGCGCTCTGGCCTCAGGCTCGCTGTCGCGCCATTT
TGCCGGGGTTTGAATGTGAGGCGGAGCGGCGGCAGGAGCGGGTAGTGCCAGCTACGGTCCGCGGCTGGGGTTCCC
TCCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAATCAGCGATGCAAATCTGCAAACACTAACAGAA
TATTTAAAGAAAACACTTGATCCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAATCTGTTGAAGGA
AATCAGAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAAGTATGTGCTTCA
GTAACATTCAAAAACATATATTAAGGAAGTGGAGAATTGTTGAAGATGAACCAAACAAAATTTGTGAAGCCGAT
CGAGTGGCCATTAAAGCCAACATAGTGCACCTGATGCTTAGCAGCCCAGAGCAAATTCAGAAGCAGTTAAGTGAT
GCAATTAGCATTATTGGCAGAGAAGATTTCCACAGAAATGGCCTGACTTGCTGACAGAAATGGTGAATCGCTTT
CAGAGTGGAGATTTCCATGTTATTAATGGAGTCTCCGTACAGCACATTCATTATTTAAAAGATACCGTCATGAA
TTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTTCTGGATGCCTTTGCTTTGCCTTTGACTAATCTTTTT
AAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTTTCTTCCCTGATC
CTGATCTCAAATTTGTTCTATAGTTTAACTTTTCCAGGATCTCCCTGAATTTTTTGAAGATAATATGGAACTTGG
ATGAATAATTTTCATACTCTCTTAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAGGAAGCCGGCTTA
TTGGAGCTCTTAAAATCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAAGAATTCCAGCGA
TACCTGCCTCGTTTTGTTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAAATATGATTTGTTG
GTAAGTAATGCAATTCATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAATCTATTTGAGGACCAGAAC
ACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAAGAAGCATTGTGA
GATAATCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGGCTGCTTGTGAT
CTGGTACGAGGATTATGCAAGTTTTTTGAGGGACCTGTGACAGGAATCTTCTCTGGTTATGTTAATTCATGCTG
CAGGAATACGCAAAAAATCCATCTGTCAACTGGAAACACAAAGATGCAGCCATCTACCTAGTGACATCTTTGGCA
TCAAAGCCCCAACACAGAAGCATGGAATTACACAAGCAAATGAACCTTGTAACCTAACTGAGTTCTTTGTGAAT
CACATCTCCCTGATTTAAAATCAGCTAATGTGAATGAATTTCTCTGCTTAAAGCTGACGGTATCAAATATATT
ATGATTTTTAGAAATCAAGTGCCAAAAGAACATCTTTTAGTCTCGATTCTCTCTTGATTAATCATCTTCAAGCT
GAAAGTATGTGTTTTCATACTTACGCAGCTCATGCTCTTGAACGGCTCTTTACTATGCGAGGGCTTAACAATGCC
ACTCTCTTTACAGCTGCAGAAATCGCACCGTTTGTGAGATTCTGCTAACAAACCTTTTCAAAGCTCTCACACTT
CCTGGCTCTTCAGAAAATGAATATATTATGAAAGCTATCATGAGAAGTTTTCTCTCTACAGAAGCCATAATC
CCCTACATCCCTACTCTCATCACTCAGCTTACACAGAAGCTATTAGCTGTTAGTAAGAACCCAAGCAAACCTCAC
TTTAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAACTTGCAAAGCTAACCCTGCTGCTGTTGTA
AATTTTGAGGAGGCTTTGTTTTTGGTGTCTTACTGAAATCTTACAAAATGATGTGCAAGAATTTATTCATACGTC
TTTCAAGTGATGTCTTTGCTTCTGGAACACACAAAAATGACATCCCGTCTTCTATATGGCCTTATTTCTCAT
CTCCTTCAGCCAGTGCTTTGGGAAAGAACAGGAAATATCTGCTCTAGTGAGGCTTCTTCAAGCATTCTTAGAA
CGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATTCCTGGGTTACTAGGTGTCTTTCAGAAGCTGATT
GCATCCAAAGCAAATGACCACCAAGGTTTTTATCTTCTAAACAGTATAATAGAGCACATGCCTCCTGAATCAGTT
GACCAATATAGGAAACAAATCTTCATTCTGCTATTCCAGAGACTTCAGAATTCAAAACAACCAAGTTTATCAAG
AGTTTTTTAGTCTTTTATTAATTTGTATTGCATAAAATATGGGGCACTAGCACTACAAGAAATATTTGATGGTATA
CAACCAAAAATGTTTGGAATGGTTTTGGAAAAAATTATTATTCCTGAAATTCAGAAGGTATCTGGAAATGTAGAG
AAAAAGATCTGTGCGGTTGGCATAACCAAAATTAACAGAATGTCCCCCAATGATGGACACTGAGTATACCAAA
CTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTTGAGTTACCCGAAGATGATACCATTCTGATGAGGAA
CATTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCTTCTCACAGTTGGCATTGCTGGGAAAAAAGAG
CATGATCCTGTAGGTCAAATGGTGAATAACCCCAAATTCACCTGGCACAGTCACTTCACAAGTTGTCTACCGCC
TGTCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTCCAAGGGTACCTT
CAGGCGACCGAGTGTGACACTGCTTTAACTGCATTTTTCTAATGGGCTAAACCCAGATGGTTTCTAGGAAATCA
CAGGCTTCTGAGCACAGCTGCATTAAAACAAAGGAAGTTCTCCTTTTGAACCTGTACGAATTCATCTTGTAAA
GGATATTAAATGTTGCTTTAACCTGAACCTTGAGCAAATTAGTTGGTTTGTGTGATCATACAGTTATGTGGGTGG
CTTCTAGTTTGCAACTTCAAGGGACAAGTATTAATAGTTCAAGTGTATGGCGTTGGTTTGTGTTGAGCGTTTGCAC
GGTTTGGATAATCTTAAATTTTACGGACACTGTGGAGACTTTCTGTTACTAAATCCTTTTGTGTTGAAGCTGTT
GCTATTTGTATTTCTTGTCTTTATATTTTTTGTCTGTTTATTTACGCTTTTATTGGAAATGTGAATAAGTAA
AGAATTACTTGTGTTACTTGCCAAGCAGTGCACATTTTCATAGTTTCAAATCTGTAATCAGCAATAAAAATCTTAA

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FIGURE 5796B

AATAATGTACCT

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FIGURE 5797

MELSDANLQTLTEYLKKTLDPDPAIRRPAAEFLESVEGNQNYPLLLLTLLEKSQDNVIKVCASVTFKNYIKRNWR
IVEDEPNKICEADRVAIKANIVHMLSSPEQIQKQLSDAISIIIGREDFPQKWPDLLTEMVNRFSQSGDFHVGVL
RTAHSLEFKRYRHEFKSNELWTEIKLVDAFALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFFEDNMETWMNNFHTLLTLDNKLLQTDDEEEAGLLELLKSQICDNaALYAQKYDEEFQRYLPRFVTAIWNL
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVPNMEFRAADEEAFEDNSEEYIRRDLE
GSDIDTRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNPSVNWKHKDAAIYLVTSLASKAQTQKHGITO
ANELVNLTEFFVNHILPDLKSANVNEFFVLKADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAESIVVHTYAAHA
LERLFTMRGPNNATLFTA AEIAPFVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLQEAIPYIPTLITQLTQ
KLLAVSKNPSKPHFNHYMFEAICLSIRITCKANPAAVVNFEALFLVFTEILQNDVQEFIPYVFQVMSLLETHK
NDIPSSYMA LFPHLLQPV LWERTGNIPALVRLQAFLEGRSNTIASAAADKIPGLLGVFQKLIASKANDHQGFYL
LNSIEHMPPE SVDQYRKQIFILLFQRLQNSKTTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKI
IPEIQKVSNGVEKKICAVGITKLLTECPMMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQLAFAGKKEHDPVGMVNNPKIH LAQSLHKLSTACPGRVPSMVSTSLNAEALQYLQGYLQAASVTLL

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FIGURE 5798

AAGTGACGCATGGTACTTGCACAAAGACGACGAGGAGGCTGCGAAAAGTTAAGGGCCGGACCGCAGGCTGTGCTC
GCTTCCGGAAGTGGCTTCTGCGACAACATGCTTGCAGACCTCGGCTTAATCGGAACCATAGGCGAGGATGACGAG
GTGCCGGTGGAGCCCGAGTCTGACTCCGGGGACGAGGAAGAGGAGGGGCCATTGTGCTGGGCAGACGACAAAAA
GCTTTGGGGAAGAACCGCAGTGTGATTTCAACCCTGATTTTCGTTTTCACTGAGAAGGAGGGGACGTACGATGGC
AGCTGGGCCCTGGCTGATGTGATGAGCCAACCTCAAGAAGAAGAGGGCAGCCACTACATTAGATGAGAAGATTGAG
AAAGTTTCGAAAGAAAAGGAAAACAGAGGATAAAGAAGCCAAGTCTGGGAAGTTGGAAAAGGAGAAAAGCAAAG
GAAGGCTCTGAACCAAAGGAGCAGGAAGACCTTCAAGAGAATGATGAGGAAGGCTCAGAAGATGAAGCCTCGGAG
ACTGACTACTCATCAGCTGATGAGAACATCCTCACCAGCAGATACACTCAAAGTAAAGGATCGGAAGAAGAAG
AAGAAGAAAGGACAGGAAGCAGGAGGATTTTTTGAAGATGCATCTCAGTACGATGAAAACCTCTCGTTCCAGGAC
ATGAACCTTTCCCGCCCTCTTCTGAAGGCCATTACAGCCATGGGCTTCAAGCAGCCACCCCGATCCAGAAGGCG
TGCATACCTGTGGGTCTATTGGGGAAGGACATCTGTGCCTGTGCAGCCACTGGGACAGGTAAGAACTGCCGCCCTT
GCCCTGCCTGTTTTGGAGCGTCTGATTTATAAACCCCGCCAGGCTCCAGTCACCCGCTGCTGGTGCTAGTGCCC
ACCCGAGAGCTGGGCATCCAGGTGCACTCTGTCAACGACAGCTGGCCAGTTCTGCAACATCACCACCTGCCTG
GCTGTGGGCGGCTTGGATGTGAAGTCTCAGGAAGCAGCTCTTCGGGCAGCGCCTGACATCCTCATCGCCACCCCA
GGCCGGCTCATCGATCACCTCCACAACCTGCCCTTCCCTTCCACCTGAGCAGCATCGAGGTGCTCATCCTGGACGAG
GCTGACAGGATGCTGGATGAGTACTTTGAGGAGCAGATGAAGGAGATCATCCGAATGTGTTCCACCACCGCCAG
ACCATGCTCTTCTCGGCCACCATGACAGACGAGGTGAAAGATCTGGCTTCTGTCTCCTTGAAGAATCCTGTCCGG
ATATTTGTGAACAGCAACACAGATGTGGCTCCCTTCCCTGCGGCAGGAGTTCATCCGGATCCGGCCTAATCGTGAA
GGAGACCGGGAAGCCATCGTGGCAGCTTTGTTGACGAGGACCTTCACTGACCATGTGATGCTGTTACGCAAAACC
AAGAAGCAGGCCCACCGCATGCACATCCTCCTGGGGCTCATGGGGCTGCAGGTGGGTGAGCTCCATGGCAACTTG
TCACAGACGCAGCGGCTGGAGGCCCTCCGGCGTTTTAAGGATGAACAGATTGACATCCTCGTGGCCACTGATGTG
GCAGCCCGTGGACTTGACATTGAGGGGGTCAAAACGGTAATCAACTTCACAATGCCTAATACCATCAAAACATTAT
GTCCACCGGGTGGGGCGAACAGCACGTGCTGGCAGGGCTGGGCGCTCAGTCTCTCTGGTGGGAGAAGATGAGCGG
AAGATGCTGAAGGAGATTGTAAAAGCTGCCAAGGCCCTGTGAAGGCCAGGATACTTCCCCAAGATGTCATCCTC
AAATTCGGGACAAGATTGAGAAAATGGAGAAAGATGTGTATGCAGTTCTGCAGCTAGAGGCGGAGGAAAAAGAG
ATGCAGCAGTCAGAAGCCCAGATCAATACAGCAAAGCGGCTCCTGGAGAAGGGGAAGGAGGCAGTGGTCCAAGAG
CCCGAGAGGAGCTGGTTCCAGACCAAAGAAGAGAGGAAGAAGGAGAAAAATTGCCAAAGCTCTGCAGGAATTTGAC
TTGGCCTTAAAGAGGAAAGAAGAAAAGGAAGAAGTTTATGAAGGATGCCAAAAAAAGGGGGAGATGACAGCAGAG
GAAAGGTCTCAGTTTGAAATCCTCAAGGCGCAGATGTTTGCTGAACGGCTAGCGAAGAGGAATCGCAGAGCCAAG
CGGGCCCGAGCAATGCCCGAGGAGGAGCCAGTGAGAGGTCTGCCAAGAAGCAAAAGCAGGGGAAGAAATCTGTA
TTTGATGAAGAACTACCAACACAAGCAAGAAGGCCCTGAAACAGTATCGAGCTAGCCCTTCTTTGAAGAAAGG
AAACAGTTGGGCTTGCCCCACCAGAGACGAGGAGGAAACTTTAAATCTAAATCCAGATACAAGAGGAGGAAGTAG

CTGTCTGGCCTGAAGAAATTCATGGGGGCAGCCCTTAAATCCCTTCCCTGTGGGAAGTCATCCTGGCTGGTCTG
TCTTTTCTCCATTTGTTTTAAAAAACAACAAACAACTTTGGTGTGGTGGTATGGTACGTAGCTA
TTTTCTAAGCATGTCTGTCAATCTCCCTTCTTGCTGATTAGCTTTCATATGACTATATTAATGGAAGTATTTT
TGGGAAAAGAGAAACCAAAAAAAAAAAAAAAAAA

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FIGURE 5799

MVLAQRRRGCEKLRAGPQAVLASGSGFCDNMLADLGLIGTIGEDDEVPEPESDSGDEEEEGPIVLGRRQKALG
KNRSADFNPDFVFTEKEGTYDGSWALADVMSQLKKKRAATTLDEKIEKVRKKRKTEDKEAKSGKLEKEKEAKEGS
EPKEQEDLQENDEEGSEDEASETDYSSADENILTKADTLKVDRKKKKKKQGEAGGFFEDASQYDENLSFQDMNL
SRPLLKAITAMGFKQPTPIQKACIPVGLLGKDI CACAATGTGKTAAFALPVLERLIYKPRQAPVTRVLVLPVPTRE
LGIQVHSVTRQLAQFCNITTCCLAVGGLDVKSQEAALRAAPDIL IATPGRLIDHLHNCPSFHLSSIEVLILDEADR
MLDEYFEEQMKEIIRMCSHHRQTMLFSATMTDEVKDLASVSLKNPVRI FVNSNTDVAPFLRQEFIRIRPNREGDR
EAIVAALLTRTFTDHVMLFTQTKKQAHRMHILLGLMGLQVGELHGNLSQTQRLEALRRFKDEQIDILVATDVAAR
GLDIEGVKTVINF TMPNTIKHYVHRVGRTARAGRAGRSVSLVGEDERKMLKEIVKAAKAPVKARILPQDVILKFR
DKIEKMEKD VYAVLQLEAEEKEMQQSEAQINTAKRLLEKGKEAVVQEPERSWFQTKEEKKEKIAKALQEFDLAL
RGKKKKKKFMKDAKKKGEMTAEERSQFEILKAQMFAERLAKRNRRAKRARAMPEEEPVRGPAKKQKQGKKSVFDE
ELTNTSKKALKQYRASPSFEERKQLGLPHQRRGGNFKSKSRYKRRK

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FIGURE 5800

GAAAATGATCTCCAAAAGATTTCTCAGCAAGGCAGATTTACTTCTGCAGAATGGTGCTGCTTGCACTCCTGGTCA
CAGTGAGAGCACCCCGAACAAAGGAGGTGAAGTGGTTTTATCCCTAACACAGCTAGTTCCTGCTTCTGTGTTCT
ATCCCCATTGGCTAGAGTCCAATCTAACTAGTCCTGATTGGCTATTTTAAACAGGAGGGGTGGGTTACAGCA
GTGGGAAGAGCAGTTGCCACGAGCGAGGGAGACTTTTCAGATAAGGAACAAATGCGGGTTACAGGTTGGGATTG
GTGGGAGAAATGTTTACAGAATGGGTAATTAGGAGTGGGAAGGTATGAGGAAGTTGACCTTAAGAACAAAGAACA
AGGAAGTTAACTTTGAAGAGAAACCCATCATACCTAACAGTCTTGTAAGAAAGGATGACAAAGTGATTGAACAT
TGGGTGGAGCTAATTTTCCTTGGCCAATTCACCTTAGTAAGATAAGGAGCTCCAAATCATATTTAAGTTGGGAGTC
AATTGATTTTACTTAATTCTGTGAGGTTCAAGTTATAAGATTCATCATACTACTACCATGAGCCATCCTCAGCTC
CTTGTTACATGGGCCTGTTAACATGGCAGCTTTGTCTATAAGCAAACCCAGGAGAGAAAGACATAGCAGAGATGG
ATGTTTGAAGTCTATACCTTCCACCCCTTTAAAGAGAAAGTAACACCACTCCTTTTCTGTGTCCCTTGGGGACA
CTACCTCCATGTCTGGTCACATGGCTGGACTTTACAGCAGATAAGCATACTGTGGCCTGAGACCATGATTGTATG
CTTTCCTTCTGCTGACCTTTACAATCCCTCAATAAATTGAGCTAACACAGGGAAGCTTTTTTACCAAATAACTGT
GTTGCATCATCTCCAGTTTGCCTGGTGTCTTAATCAATGGAAGGGGAATAAGCAAAGTGAAGTTTCTTACACC
TTTTGAGTATAGTGTGTTTGGCCATCATAGATGTGGCTCCTCATAATTCTCCAAGTTTATATTAATAAAACCAAAA
CCTCAAAAATTGTAGTTTATGTCAGTCAGTGATGACTCATCTTAGAAGTATTTGTTTTTGGATGTGTGAATGTG
CATAGTTCTTAAAGTCCAACATTCATGTAATAAGACATCTGCATATAACAATGACCCTTACGTCTAAGATGTTA
AATAGATCCTAAGCCTGGTATAACTTTATCAAGTATCCTTATTTGCCCTAAAATGTCTTTAATACACATTACT
TGGGTTATTTCTTGAATGAACATACAGGTATCCCAATTTCTGTTTTTAAGAGAATGGGGTCTTGCTCTGTACCCC
AGGCTGGAGTGCAGTGGTGCAGTCATGGCTTACTGCATCCATGATCCTCCTGCCTCAGCCTCCCAAGTAGATGGG
ACTGAAAGCACACACTGCCATCCCTGGCTAATGTTTTCATATTTGTAGAGTTGCAGCCTTGCTACGTGACCCAG
GCTGGAGTGTAGTAGCTATTACAGGCATGATTGCTTGAACTCATGGCTTCAAGGGAACTCCCACCCTCAATA
TCCTCAGTAGCTGCAACTACAGCCATACCCCCACTGCTCAGCTTCTCATCTTTAAAAGATTTTACTGGTAGT
GTCCTCATCTGCGGTTTTTGTCTTCTGTGTTTACTGTGACATGAAGTCATTTTAGATGAAGGTTAAACATTTTG
CCAACGCAGGTACAATATGGGATTCAATAAAAGTACAGAATTAAAGTTGTCTTATTAGAGATTGGGAAGTTTCCC
AGCTCCGTTTATCGGTACTTGGCCGTACCGATAAAGGGGATGGACTTGGAGTGACCAGGTCTTAGTCACATGTAT
TTTCATACCCTAAACAAGAAGCGGTATAGACCAGAATGGAGCACTGATTGTAATCCACCTTCTTTCTTAGAACT
GGCGATGGAATATGAGAGGAGCCCTCTGGAAAGAAAAGGACAGACCCTGTGCTTTCATGAAAGTGAAGATCTGGC
TGAACCAAGTTCCACAAGGTTACTGTATACATAGCCTGAGTTTAAAGGCTGTGCCCACTTCAAGAATGTCATTGT
TAGACTTTGAAATTTCTAACTGCCTACCTGCATAAAGAAAATAAAATCTTTTAAATC

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FIGURE 5801

MISKRFLSKADLLLQNGAACTPGHSESTPNKGGEVVFIPNTASSCFCVLSPLARVQSKLVLIQYFKQEGCGLQQW
EEQLPRARETFPDKEQMRVTGWDWWEKCLQNG

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FIGURE 5802

GGCACGGCCTAGCGAGTGGTTCTTCTGCGCTACTGCTGCGCGAATCGGCGACCCAGTGCCTCGACCACTATGCC
GCGCTCTTTCCTCGTCAGGAAGCCCTCCGACCCCAATCGGAAGCCTAACTACAGCGAGCTGCAGGACTCTAATCC
AGAGTTTACCTTCCAGCAGCCCTACGACCAGGCCACCTGCTGGCAGCCATCCCACCTCCGGAGATCCTCAACCC
CACCGCCTCGCTGCCAATGCTCATCTGGGACTCTGTCTGGCGCCCCAAGCCCAGCCAATTGCCTGGGCCTCCCT
TCGGCTCCAGGAGAGTCCCAGGGTGGCAGAGCTGACCTCCCTGTCAGATGAGGACAGTGGGAAAGGCTCCCAGCC
CCCCAGCCACCCCTACCGGCTCCTTCGTCTTCTCCTCTACTTCAGTCTCTTCCTTGGAGGCCGAGGCCTATGC
TGCTTCCCAGGCTTGGGCCAAGTGCCCAAGCAGCTGGCCAGCTCTCTGAGGCCAAGGATCTCCAGGCTCGAAA
GGCCTTCAACTGCAAATACTGCAACAAGGAATACCTCAGCCTGGGTGCCCTCAAGATGCACATCCGAAGCCACAC
GCTGCCCTGCGTCTGCGGAACCTGCGGGAAGGCCTTCTCTAGGCCCTGGCTGCTACAAGGCCATGTCCGGACCCA
CACTGGCGAGAAGCCCTTCTCCTGTCCCCACTGCAGCCGTGCCTTCGCTGACCGCTCCAACCTGCGGGGCCACCT
CCAGACCCACTCAGATGTCAAGAAGTACCAGTGCCAGGCGTGTGCTCGGACCTTCTCCCGAATGTCCCTGCTCCA
CAAGCACCAAGAGTCCGGCTGCTCAGGATGTCCCCGCTGACCCCTCGAGGCTCCCTCTTCTCTCCATACCTGCCC
CTGCCTGACAGCCTTCCCCAGCTCCAGCAGGAAGGACCCACATCCTTCTCACTGCCATGGAATCCCTCCTGAG
TGCCCCACTTCTGGCCACATCAGCCCCACAGGACTTTGATGAAGACCATTTCTGGTTCTGTGTCTCTGCCTGG
GCTCTGGAAGAGGCCTTCCCATGGCCATTTCTGTGGAGGGAGGGCAGCTGGCCCCCAGCCCTGGGGGATTCTCTGA
GCTGGCCTGTCTGCGTGGGTTTTTGTATCCAGAGCTGTTTGGATACAGCTGCTTTGAGCTACAGGACAAAGGCTG
ACAGACTCACTGGGAAGCTCCACCCCACTCAGGGGACCCCACTCCCTCACACACACCCCCCACAAAGGAACCC
TCAGGCCACCCCTCCACGAGGTGTGACTAATATGCAATAATCCACCCCAAGTGCAGCCCCAGGGCCTGCGGAGG
CGGTGGCAGACTAGAGTCTGAGATGCCCCGAGCCAGGCAGCTATTTAGCCTCCTGTTTGGTGGGGTGGCACCT
GTTTCCCGGGCAATTTAACAATGTCTGAAAAGGGACTGTGAGTAATGGCTGTCACTTGTGCGGGGCCCAAGTGGG
GTGCTCTGGTCTGACCGATGTGTCTCCAGAATACTTCTGGGGGCCGACAGGTGGGCCTGGGAGGAAGATGTTT
ACATTTTAAAGGTACACTGGTATTTATATTTCAAACATTTTGTATCAAGGAAACGTTTTGTATAGTTATATGTA
CAGTTTATTGATATTCAATAAAGCAGTTAATTTATATATTAATAAAAAAAAAAAAAAAAAA

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FIGURE 5803

MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAIPPEILNPTASLPMLIWDSVLAPQAQPIAWA
SLRLQESPRVAELTSLSDEDSGKGSQPPSPSPAPSSFSSTSVSSLEAEAYAAFPGLGQVPKQLAQLSEAKDLQA
RKAFNCKYCNKEYLSLGALKMHIRSHTLPCVCGTCGKAFSRPWLLQGHVRTHTGEKPFSCPHCSRAFAADRNLRA
HLQTHSDVKKYQCQACARTFSRMSLLHKKHQUESGCSGCPR

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FIGURE 5804

TTCACACGGCAGCACTTCATCGAGACCAACGGGGACAACCTGCCTGGTGACACTGCTGCCGCTGCTAAAC**ATG**GCC
TACAAGTTCCGCACCCACAGCCCTGAAGCCCTGGAGCAGCTATACCCCTGGGAGTGCTTCGTCTTCTGCCTGATC
ATCTTCGGCACCTTCACCAACCAGATCCACAAGTGGTCGCACACGTACTTTGGGCTGCCACGCTGGGTACCCCTC
CTGCAGGACTGGCATGTCTCCTGCCACGTAAACACCATCGCATCCACCACGTCTACCCACGAGACCTACTTC
TGCATCACCACAGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTA
GGAGATGGCAGATTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATT
GGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCTAAATACCCAGAAGCA
CCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGA
GCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCTAATG
ATGTCTAAAGAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAAT**TAA**TCAAAAAGAAAAACC
ACAGGCCCTTCCCTTCCCCCAATTTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGATACGT
CTTGTAGACCTCAAAGTACCGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGATACT
AATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACCACTGTCCACGTA
GTTGAACCTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTCAACT
GTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCTTTACCCCTC
CCGCTCCCAACCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGCTTGTAGAGTAGATGTGAAGGTTTCAGGT
CGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCCTGCACCCCTGGTTCCTTTAAGTCTTAAGTGAT
GCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGCCGAAGCATAGATTGTAACCCCT
CCACTCCCTCTGAGATTGGCTTCGGTGAGGAATTCAGGGCTTCCCCATATCTCTCTCCCCCACCTTTATCG
AGGGGTGCTGCTTTTTTCTCCCTCCTCCTCAAGTTCCCTTTTGCACCGTCACCACCAACACCTTCCATGACACTT
CCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAACCATA
CTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCTCAGCCCTGCCACCCCTCTGCTGTATCAGCTGA
TGCAATTGTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTACTCAGACCTGCCAGCTCTCG
GAGTCCTTGGTGGTTGAACCTTGAGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAATTGTT
TTACTTTCTGTAACTGCTTTTGTCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTCATTTGGTCATCCTTGC
AATCCATTGGGGTCTAGTTTGAATCTGACAACCTGGAACAAAAAGAACCTTGAATCCGGTGCAATGCTTGGTTTT
GGTGTCTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCCGAAAT
TGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTTCCACTTGCTGTTTCAAGGACCACTAAATGCTGAAATGTGG
ATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTAAATTTAGTATTTGTGTA
AACACCTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTTTCTGGGGGGAAAA
CCTTAGTTCTAAGGATTTAACATCCTGTAAAGTGAAGTTTAAACATAACAGTATTCCATAAGCAGCCTTTTTATTGT
CAGACCATTCCTGATTTTAATATAATAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5805

MAYKFRTHSPEALEQLYPWECFVFCLIIFGTFTNQIHKWSHTYFGLPRWVTLLQDWHVILPRKHHRIHHVSPHET
YFCITTGVKVPRNFRLEELEEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTIYENRIYSLKIECGPKYP
EAPPFVRFVTKINMNGVNSSNGVVDPRASVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQCYSN

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FIGURE 5806

ATGCCAGGAGAGGTTCAAGCGTCTTACCTGAAGTCACAAAGCAAAGTGAAGTGAAGGAAGACTTGAACCTAGA
AAATTTCACTGCAAAGACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCTAAATACCCAGA
AGCACCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCC
AAGAGCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCT
AATGATGTCTAAAGAAAATATGAACTCCCTCAGCCGCCGAAGGACAGTGTTACAGCAATTAATCAAAAAGAAA
AACCACAGGCCCTTCCCCTTCCCCCAATTTCGATTTAATCAGTCTTCATTTCCACAGTAGTAAATTTCTAGAT
ACGTCTTGTAGACCTCAAAGTACCGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGA
TACTAATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACTGTCCA
CGTAGTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCAGTCTAACTC
AACTGTGAAAAGACACATCACACAATCACCTTGTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCCTTAC
CCTCCCGCCTCCACCCCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTAGAGTAGATGTGAAGGCTTC
AGGTGCGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGTGTTTCGCCTGCACCCCTGGTTTCTTTAAGTCTTAAG
TGATGCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGCGCGAAGCATAGATTGTAAC
CCCTCCACCCCCCTCTGAGATTGGCCTTCGGTGAGGAATTCAGGGCTTCCCCATATCTTCTCTCCCCACCTTT
ATCGAGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCCTTTTTGCACCGTCACCACCAACACCTTCCATGAC
ACTTCCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGAAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAAC
CATACTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCTCAGCCCTGCCACCCTCTGCTGTCATCAG
CTGATGCATGTGTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAAATAGTCACCAGGGTTACTCAGACCTGCCAGCT
CTCGGAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAAT
TGTTTTACTTTCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTTCAATTTGGTTCATCC
TTGCAATCCATTGGGGGTCTAGTTTGGAATCTGACAACCTGGAACAAAAGAACCTTGAACCCGGTGCATGCCTTG
GTTTTGGTGTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCC
GAAATTGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTCCACTTGCTGTTTCAAGGACCTAAATGCTGAAA
TGTTGGATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTAAATTTAGTATTTGT
GTAAACCACTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTCTGGGGG
GAAACCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTAACATAACAGTATTCATAAGCAGCCTTTTT
ATTGTCAGACCATTGCCTGATTTTAAATATAATAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5807

MKEDLNLENFTAKTIYENRIYSLKIECGPKYPEAPPFVRFVTKINMNGVNSSNGVVDPR AISVLAKWQNSYSIKV
VLQELRRLMMSKENMKLPQPPEGQCYSN

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FIGURE 5808

ATGCAACGCCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCCGCCGCCGCTGCCITTTAAATCCATGGAA
GTGGCCAACITCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGCCCCCGCGGCGCCCCC
GCGGCCAGACCCGGGCGCGCCCCCGCGGCGAGCTGGGCAGCATCGGCGACCACGAGCGCGCCTCGACTTC
AGCCCGTACCTGGAGCCGCTGGGCGCGCCGCAGGCCCGCGCGCCGCCACGGCCACGGACACCTTCGAGGCGGCT
CCGCCCCGCGCCCGCCCCGCGCCCGCTCCTCCGGGCAGCACCACGACTTCCTCTCGACCTCTTCTCCGACGAC
TACGGGGGCAAGAAGTGAAGAAGCCGGCCGAGTACGGCTACGTGAGCCTGGGGCGCTGGGGGCTGCCAAGGGC
GCGCTGCACCCCGGCTGCTTCGCGCCCTGCACCCACGCCCCCGCGCGCCGCCCGCCGAGCTCAAGGCG
GAGCCGGGCTTCGAGCCCGCGGACTGCAAGCGGAAGGAGGAGGCCGGGGCGCGGGCGGCGGCGAGGCATGGCG
GCGGGCTTCCCGTACGCGCTGCGCGCTTACCTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGGAGCCTCTCC
ACGTCTCTCTCGTCCAGCCCGCCCGGCACGCCGAGCCCGCTGACGCCAAGGCCCGCCGACCGCTGCTACGCG
GGGGCCGGGCCGGCGCCCTCGCAGGTCAAGAGCAAGGCCAAGAAGACCGTGGACAAGCACAGCGACGAGTACAAG
ATCCGGCGCGAGCGCAACAACATCGCCGTGCGCAAGAGCCGCGACAAGGCCAAGATGCGCAACCTGGAGACGCAG
CACAAGGTCTTGGAGCTCACGGCCGAGAACGAGCGGCTGCAGAAGAAGGTGGAGCAGCTGTGCGCGAGCTCAGC
ACCTTGCAGAACTTGTTCAAGCAGCTGCCCAGCCCCCTGCTCGCCTCCTCCGGCCACTGCTAG

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FIGURE 5809

GTGATGCGTAGTTCGCGCTGCCGGTTGACATGAAGAAGCAGCAGCGGCTAGGGCGGCGGTAGCTGCAGGGGTTCGG
GGATTGCAGCGGGCCTCGGGGCTAAGAGCGCGACGCGGCTAGAGCGGCAGACGGCGCAGTGGGCCGAGAAGGAG
GCGCAGCAGCCGCCCTGGCCCGTCATGGGAGATGGAAAAGGAGTTCGAGCAGATCGACAAGTCCGGGAGCTGGGCG
GCCATTTACCAGGATATCCGACATGAAGCCAGTGACTTCCCATGTAGAGTGGCCAAGCTTCCTAAGAACAAAAAC
CGAAATAGGTACAGAGACGTCACTCCCTTTGACCATAGTCGGATTAACTACATCAAGAAGATAATGACTATATC
AACGCTAGTTTGATAAAAATGGAAGAAGCCCAAAGGAGTTACATTCTTACCCAGGGCCCTTTGCCTAACACATGC
GGTCACTTTTGGGAGATGGTGTGGGAGCAGAAAAGCAGGGGTGTCGTCATGCTCAACAGAGTGATGGAGAAAGGT
TCGTTAAAATGCGCACAACTAGGCCACAAAAAGAAAAAGAGATGATCTTTGAAGACACAAATTTGAAATTA
ACATTGATCTCTGAAGATATCAAGTCATATTATACAGTGCACAGCTAGAATTGGAAAACCTTACAACCCAAGAA
ACTCGAGAGATCTTACATTTCCACTATACCACATGGCCTGACTTTGGAGTCCCTGAATCACCAGCCTCATTCTTG
AATTTCTTTTCAAAGTCCGAGAGTCAGGGTCACTCAGCCCGGAGCACGGGCCCCGTGTGGTGCAGTGCAGTGCA
GGCATCGGCAGGTCTGGAACCTTCTGTCTGGCTGATACCTGCCTCTTGCTGATGGACAAGAGGAAAGACCTTCT
TCCGTTGATATCAAGAAAGTGTGTTAGAAATGAGGAAGTTTCGGATGGGGCTGATCCAGACAGCCGACCAGCTG
CGCTTCTCCTACCTGGCTGTGATCGAAGGTGCCAAATTCATCATGGGGGACTCTTCCGTGCAGGATCAGTGGAAG
GAGCTTTCCACGAGGACCTGGAGCCCCACCCGAGCATATCCCCCACCTCCCCGGCCACCCAAACGAATCCTG
GAGCCACACAATGGGAAATGCAGGGAGTCTTCCCAAATCACCAGTGGGTGAAGGAAGAGACCCAGGAGGATAAA
GACTGCCCATCAAGGAAGAAAAAGGAAGCCCTTAAATGCCGCACCTACGGCATCGAAAGCATGAGTCAAGAC
ACTGAAGTTAGAAGTCGGGTCTGTGGGGGAAGTCTTCGAGGTGCCAGGCTGCCTCCCCAGCCAAAGGGGAGCCG
TCACTGCCCGAGAAGGACGAGGACCATGCACTGAGTTACTGGAAGCCCTTCCTGGTCAACATGTGCGTGGCTACG
GTCTTCACGGCCGGCGCTTACCTCTGCTACAGGTTCTGTTC AACAGCAACACATAGCCTGACCTCCTCCACTC
CACCTCCACCCACTGTCCGCTCTGCCCGCAGAGCCACGCCCAGCTAGCAGGCATGCCGCGGTAGGTAAGGGCC
GCCGGACCGCGTAGAGAGCCGGGCCCGGACGGACGTTGGTTCTGCACTAAAACCCATCTTCCCCGATGTGTGT
CTCACCCCTCATCCTTTTACTTTTTTGCCCTTCCACTTTGAGTACCAAATCCACAAGCCATTTTTTGAGGAGAGT
GAAAGAGAGTACCATGCTGGCGGCGCAGAGGGAAGGGGCCACACCCGTCTTGGGGCTCGCCCCACCCAGGGCTC
CCTCCTGGAGCATCCCAGGCGGGCGGCACGCCAACAGCCCCCCCCCTTGAATCTGCAGGGAGCAACTCTCCACTCC
ATATTTATTTAAACAATTTTTTCCCCAAAGGCATCCATAGTGCACTAGCATTTTCTTGAACCAATAATGTATTAA
AATTTTTTGATGTACGCTTGCAAGGGCTTTATCAAAAAGTACAATAATAATCCTCAGGTAGTACTGGGAA
TGGAAGGCTTTGCCATGGGCCTGCTGCGTCAGACCAGTACTGGGAAGGAGGACGGTTGTAAGCAGTTGTTATTTA
GTGATATTGTGGGTAACGTGAGAAGATAGAACAATGCTATAATATATAATGAACACGTGGGTATTTAATAAGAAA
CATGATGTGAGATTACTTTGTCCCGCTTATTCTCCTCCTGTTATCTGCTAGATCTAGTTCTCAATCACTGCTCC
CCCGTGTGATTAGAATGCATGTAAGGTCTTCTGTGTCCTGATGAAAAATATGTGCTTGAATGAGAACTTTG
ATCTCTGCTTACTAATGTGCCCCATGTCCAAGTCCAACCTGCCTGTGCTGACCTGATCATTACATGGCTGTGGT
TCCTAAGCCTGTTGCTGAAGTCATTGTGCTCAGCAATAGGGTGCAGTTTCCAGGAATAGGCATTTGCCTAATT
CCTGGCATGACACTCTAGTGACTTCCCTGGTGAGGCCAGCCTGTCTGCTGACAGAGGGTCTTGCTGTAACTCAG
ACATTCCAAGGTATGGGAAGCCATATTACACCTCACGCTCTGGACATGATTTAGGGAAGCAGGGACACCCCCC
GCCCCCACCTTTGGGATCAGCCTCCGCCATTCCAAGTCAACACTCTTCTTGAGCAGACCGTGATTTGGAAGAGA
GGCACCTGCTGGAACCACACTTCTTGAAACAGCCTGGGTGACGGTCTTTAGGCAGCCTGCCGCCGTCTCTGTC
CCGGTTCACCTTGCCGAGAGAGGCGGTCTGCCCCACCTCAAACCTGTGGGGCCTGATGGTGCTCACGACTCT
TCCTGCAAAGGGAAGTGAAGACCTCCACATTAAGTGGCTTTTAAACATGAAAAACACGGCAGCTGTAGCTCCCGA
GCTACTCTCTTGCCAGCATTTTACATTTTGCTTTCTCGTGGTAGAAGCCAGTACAGAGAAATCTGTGGTGGG
AACATTCGAGGTGTCACCTGCAGAGCTATGGTGAGGTGTGGATAAGGCTTAGGTGCCAGGCTGTAAGCATTCTG
AGCTGGGCTTGTGTTTTAAGTCTGTATATGTATGTAGTAGTTTGGGTGTGTATATATAGTAGCATTTCAAAA
TGGACGTACTGGTTAACTCCTATCCTTGAGAGCAGCTGGCTCTCCACCTTGTTACACATTATGTTAGAGAGG
TAGCGAGCTGCTCTGCTATATGCCCTAAGCCAATATTACTCATCAGGTCAATTATTTTTTACAATGGCCATGGAA
TAAACCATTTTTTACAAAA

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FIGURE 5810

MEMEKEFEQIDKSGSWAAIYQDIRHEASDFPCRVAKLPKNKNRNRDVSFPDHSRIKLHQEDNDYINASLIKME
EAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVVMLNRVMEKGSCLKAQYWPQKEEKEMIFEDTNLKLTLISEDIK
SYTTRQLELENLTQETREILHFHYTTWPDFGVPEPASFLNLFKVVRESGSLSPHGPVVVHCSAGIGRSGTF
CLADTCLLLMDKRKDPSSVDIKKVLEMRKFRMGLIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLE
PPPEHIPPPrPPKRILEPHNGKCREFFPNHQWVKEETQEDKDCPIKEEKGSPINAAPYGIEMSQDTEVRSRVV
GGSLRGAQAASPAKGEPSPLEKDEDHLSYWKPFVLNMCVATVLTAGAYLCYRFLFNSNT

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FIGURE 5811

ATGGCCTCCTTGGAAGTCAGTCGTAGTCCTCGCAGGTCTCGGCGGGAGCTGGAAGTGCGCAGTCCACGACAGAAC
AAATATTCGGTGCTTTTACCTACCTACAACGAGCGCGAGAACCTGCCGCTCATCGTGTGGCTGCTGGTGAAAAGC
TTCTCCGAGAGTGGAATCAACTATGAAATTATAATCATAGATGATGGAAGCCCAGATGGAACAAGGGATGTTGCT
GAACAGTTGGAGAAGATCTATGGGTGAGACAGAATTCTTCTAAGACCACGAGAGAAAAAGTTGGGACTAGGAAC
GCATATATTCATGGAATGAAACATGCCACAGGAACTACATCATTATTATGGATGCTGATCTCTCACACCATCCA
AAATTTATTCCTGAATTTATTAGGAAGCAAAAGGAGGGTAATTTTGATATTGTCTCTGGAACTCGCTACAAAGGA
AATGGAGGTGTATATGGCTGGGATTTGAAAAGAAAAATAATCAGCCGTGGGGCCAATTTTTTAACTCAGATCTTG
CTGAGACCAGGAGCATCTGATTTAACAGGAAGTTTCAGATTATACCGAAAAGAAGTTCTAGAGAAATTAATAGAA
AAATGTGTTTCTAAAGGCTACGTCTTCCAGATGGAGATGATTGTTCTGGGCAAGACAGTTGAATTATACTATTGGC
GAGGTTCCAATATCATTGTGGATCGTGTTTATGGTGAATCCAAGTTGGGAGGAAATGAAATAGTATCTTTCTTG
AAAGGATTATTGACTCTTTTGTACTACATTAAAAGAAAGATACTCATTATAGTTACGTTCAATTCAGGTTAAA
CATGAAAGAAGCCTGGTTACTGATTTGTATAAAATGTACTCTTAAAGTATAAAATATAAGGTAAGGTAAATTTCA
TGCATCTTTTTATGAAGACCACCTATTTTATTTCAAATTAAATAATTTTAAAGTTGCTGGCCTAATGAGCAAT
GTTCTCAATTTTCGTTTTCATTTTGCTGTATTGAGACCTATAAATAAATGTATATTTTTTTTTGCATAAAGT

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FIGURE 5812

MASLEVSRSPRRSRRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSESGINYEIIIDDGSPDGTRDVA
EQLEKIYGSDRILLRPREKKLGLGTAYIHGMKHATGNYIIIMDADLSHHPKFIPEFIRKQKEGNFDIVSGTRYKG
NGGVYGWDLKRKIIISRGANFLTQILLRPGASDLTGSFRLYRKEVLEKLEKCVSKGYVFQMEMIVRARQLNYTIG
EVPISFVDRVYGESKLGNEIVSFLKGLLTLFATT

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FIGURE 5813

GGAAGACTTGGGTCTTGGGTGCGCAGGTGGGAGCCGACGGGTGGGTAGACCGTGGGGGATATCTCAGTGGCGGAC
GAGGACGGCGGGGACAAGGGGCGGCTGGTCGGAGTGGCGGAGCGTCAAGTCCCCTGTCGGTTTCCCTCCGTCCCTGA
GTGTCCTTGGCGCTGCCTTGTGCCCCGCCAGCGCCTTTGCATCCGCTCCTGGGCACCGAGGCGCCCTGTAGGATA
CTGCTTGTACTTATTACAGCTAGAGGGTCTCACTCCATTGCCAGGCCAGAGTGC GG GATATTTGATAAGAAA
CTTCAGTGAAGGCCGGGCGGGTGGCTCATGCCCCGTAATCCAGCATTTTCGGAGGCCGAGGCATCATGGACCGA
TCTAAAGAAAACCTGCATTTAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAACGTGTTCTCGTGACT
CAGCAATTTCCCTTGTGAGAATCCATTACCTGTAAATAGTGGCCAGGCTCAGCGGGTCTTGTGTCCTTCAAATCT
TCCAGCGCATTCCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCGGTTCAGAAATCAGAAGCAGAAGCAA
TTGCAGGCAACCAGTGTACCTCATCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCAGCCCCTGCCA
TCGGCACCTGAAAATAATCCTGAGGAGGAAGTGGCATCAAAACAGAAAAATGAAGAATCAAAAAGAGGCAGTGG
GCTTTGGAAGACTTTGAAATTGGTCGCCCTCTGGGTAAAGGAAAGTTTGGTAATGTTTTATTGGCAAGAGAAAAG
CAAAGCAAGTTTTATTCTGGCTCTTAAAGTGTTATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTC
AGAAGAGAAGTAGAAATACAGTCCCACCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCT
ACCAGAGTCTACCTAATTCTGGAATATGCACCACCTTGAACAGTTTATAGAGAACTTCAGAACTTTCAAAGTTT
GATGAGCAGAGAACTGCTACTTATATAACAGAATTGGCAAAATGCCCTGTCTTACTGTCATTGCAAGAGAGTTATT
CATAGAGACATTAAGCCAGAGAACTTACTTCTTGGATCAGCTGGAGAGCTTAAAATTGCAGATTTTGGGTGGTCA
GTACATGCTCCATCTTCCAGGAGGACCCTCTCTGTGGCACCCTGGACTACCTGCCCCCTGAAATGATTGAAGGT
CGGATGCATGATGAGAAGGIGGATCTCTGGAGCCTTGAGGTTCTTTGCTATGAATTTTGTGTTGGGAAGCCTCCT
TTTGAGGCAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTTGAATTCACATTCCTGACTTTGTAAACA
GAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCAGCCAGAGGCCAATGCTCAGAGAAGTACTT
GAACACCCCTGGATCACAGCAAATTCATCAAAACCATCAAAATTGCCAAAACAAAGAATCAGCTAGCAAACAGTCT
TAGGAATCGTGCAGGGGGAGAAATCCTTGAGCCAGGGCTGCCATATAACCTGACAGGAACATGCTACTGAAGTTT
ATTTTACCATTGACTGCTGCCCTCAATCTAGAACGCTACACAAGAAATATTTGTTTTACTCAGCAGGTGTGCCTT
AACCTCCCTATTCAGAAAGCTCCACATCAATAAACATGACACTCTGAAGTGAAAGTAGCCACGAGAATTGTGCTA
CTTATACTGGTTCATAATCTGGAGGCAAGGTTGACTGCAGCCGCCCGCTCAGCCTGTGCTAGGCATGGTGTCTT
CACAGGAGGCAAAATCCAGAGCCTGGCTGTGGGGAAAGTGACCCTCTGCCCTGACCCCGATCAGTTAAGGAGCTG
TGCAATAACCTTCCTAGTACCTGAGTGAGTGTGTAACCTATTGGGTTGGCGAAGCCTGGTAAAGCTGTTGGAATG
AGTATGTGATTCTTTTAAAGTATGAAAATAAAGATATATGTACAGACTTGTATTTTTCTCTGGTGGCATTCTCT
TAGGAATGCTGTGTGTCTGTCCGGCACCCCGGTAGGCCTGATTGGGTTTCTAGTCTCTCTTAACCACTTATCTCC
CATATGAGAGTGTGAAAATAGGAACACGTGCTCTACCTCCATTTAGGGATTGCTTGGGATACAGAAGAGGCCA
TGTGTCTCAGAGCTGTTAAGGGCTTATTTTTTAAACATTGGAGTCATAGCATGTGTGTAAACTTTAAATATGC
AAATAAATAAGTATCTATGTCT

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FIGURE 5814

AGAGGAGTGGGACCGATCGATAGCGCAGCGGTCGCTTGGCGCCCTTTTCAGCGTGCGCAGTGAACGTGCGCTCGGA
GCGGTAGATTGGGCAGGATTCGCGCCTCCATTTTCCAGGAGAGAGCGGGATACCAAGAGAACCGGACCAGCTGC
TGGCAGGGAAACTGTCTTCCTTTTCTCCAAGATGTACAGAACCAAAGTGGGCTTGAAGGACCGCCAGCAGCTCTA
CAAGCTGATCATTAGCCAGCTGCTATATGACGGCTACATCAGCATCGCCAATGGCCTCATCAATGAAATCAAGCC
TCAGTCTGTGTGTCACCCTCGGAGCAGCTCCTGCATCTCATCAAACCTCGGAATGGAAAACGATGACACCGCAGT
TCAGTATGCAATTGGTCGTTTACAGATACTGTTGCCCTGGCACAGGGATTGACCTGGAATTTGATGCAGATGTTCA
GACTATGTCCCAGAGGCTTCTGAGTACGAAACATGCTATGTACATCACATAAAGGACCATGCCGTGTAGCTAC
CTATAGTAGAGATGGACAGTTAATAGCTACTGGGCTGCTGATGCTTCGATAAAGATACTTGACACAGAGAGGAT
GTTGGCCAAAAGTGCCATGCCAATAGAGGTCATGATGAATGAGACCGCACAAACAAAATATGGAAAACCAACCCAGT
GATTCGAACCTTTTATGACCATGTGGATGAAGTCACGTGCCTTGCTTTCCACCCAACAGAACAGATCCTGGCTTC
TGGTTCAAGGGATTATACTCTTAAATTATTTGATTATTCCAAACCATCAGCAAAAAGAGCCTTCAAATACATTCA
GGAAGCTGAAATGTTACGTTCCATCTCTTTTCATCCTTCTGGAGACTTTATACTTGTGCGGAACCTCAGCATCCTAC
TCTTCGCCCTTATGATATCAACACCTTTCAATGTTTTGTCTCTTGAATCCTCAAGATCAACACACCCGATGCTAT
ATGTTCCGTTAATTACAATTCTAGTGCCAATATGTACGTAACGGGAAGCAAGGACGGCTGCATCAAATATGGGA
TGGTGTTCAAATCGATGCATCACAACCTTTTGAGAAAGCACATGACGGTGCTGAAGTTTGTCTGCCATTTTTTC
CAAAAATTTCAAATACATTCTCTCAAGTGGAAGAAAGACTCTGTAGCTAAACCTTTGGGAAATATCAACGGGACGAAC
ACTGGTCAGATACACGGGCGCGGTTTAAAGTGGACGCCAGGTGCACCGGACACAGGCTGTGTTTAAACCACACCGA
GGACTATGTGTTGCTGCCCCGACGAGAGGACGATCAGTCTTTGCTGCTGGGACTCGAGGACAGCCGAGCGGAGAAA
CCTGCTGTCTGTTGGGGCACAACAATATTGTACGCTGCATAGTGCACCTCCCCACCAACCCCGGGTTCATGACGTG
CAGCGATGACTTCAGAGCGCGGTTTTGGTACCGGAGATCGACCACTGACTGAGCCACCCTCTCCGTAGGGTTCTT
TCTCGAGGACTCTACCCTCCTCCCCACGTCCTGTCTCAGCTGCAGTCGTAAGTCCGTGCACCATCCTTGACGTT
TTGCTGCCACCTCTGTCCACATTCTTCTTGGATTGTATATAAAGAATCTTTTTTTACCTTGATGTAGAATCATGG
TGGAAAAAGTTGGAAACACAGATCTGTGCAGTTCTACATTCACTGATTATTACAGTGTGATTTTCATCGGTTTTG
TAAGTACAGGACTTGCCGTTTCTTTTGATCTCTTGATTGAAGGAGGATAGGGCATTAAAGTGCTTTTGACATGAG
G

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FIGURE 5815

MYRTKVGLKDRQQLYKLIISQLLYDGYISIANGLINEIKPQSVCAPSEQLLHLIKLGMENDDTAVQYAIGRSDTV
APGTGIDLEFDADVQTMSPEASEYETCYVTSHKGPCRVATYSRDGQLIATGSADASIKILDTERMLAKSAMP I EV
MMNETAQQNMENTHPVIRTLYDHVDEVTCLAFHPTEQILASGSRDYTLKLFDYSKPSAKRAFKYIQEAEMLRISF
HPSGDFILVGTQHPTLRLYDINTFQCFVSCNPQDQHTDAICSVNYNSSANMYVTGSKDGCIKLWDGVSNNRCITTF
EKAHDGAEVCSAIFSKNSKYILSSGKDSVAKLWEISTGRTLVRVYTGAGLSGRQVHRTQAVFNHTEDYVLLPDERT
ISLCCWDSRTAERRNLLSLGHNNIVRCIVHSPTNPGFMTCSDDFRARFWYRRSTD

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FIGURE 5816

GGATTTGCGCCGAAATCCCGGAAGTGACAGCTTTGGGGGTTTGCTGCTGGCTCTGACTCCCGTCCTGCGATGGGT
TGCGACGGGGGAACAATCCCAAGAGGCATGAACTGGTGAAGGGGCCGAAGAAGGTTGAGAAGGTCGACAAAGAT
GCTGAATTAGTGGCCCAATGGAATATTGTACTCTAAGTCAGGAAATATTAAGACGACCAATAGTTGCTGTGAA
CTTGGCAGACTTTATAACAAAGATGCCGTCATTGAATTTCTCTTGGACAAATCTGCAGAAAAGGCTCTTGGGAAG
GCAGCATCTCACATTAAAAGCATTAAAGAATGTGACAGAGCTGAAGCTTTCTGATAATCCTGCCTGGGAAGGGGAT
AAAGGAAACACTAAAGGTGACAAGCACGATGACCTCCAGCGGGCGCGTTTCATCTGCCCCGTTGTGGGCCTGGAG
ATGAACGGCCGACACAGGTTCTGCTTCCTTCGGTGCTGCGGCTGTGTGTTTTCTGAGCGAGCCTTGAAAGAGATA
AAAGCGGAAGTTTGCCACACGTGTGGGGCTGCCTTCAGGAGGATGATGTCATCATGCTCAATGGCACCAAGGAG
GATGTGGACGTGCTGAAGACAAGGATGGAGGAGAGAAGGCTGAGAGCGAAGCTGAAAAGAAAACAAAGAAACCC
AAGGCAGCAGAGTCTGTTTCAAACAGATGTCAGTGAAGAAGCCCCAGGGCCATCAAAGTTAAGACAGGGAAG
CCTGAAGAAGCCAGCCTTGATTCTAGAGAGAAGAAAACCAACTTGGCTCCCAAAGCACAGCAATGAATGAGAGC
TCTTCTGAAAAGCTGGGAAGCCTCCGTGTGGAGCCACAAAGAGGTCCATCGCTGACAGTGAAGAATCGGAGGCC
TACAAGTCCCTCTTTACCACTCACAGCTCCGCCAAGCGCTCCAAGGAGGAGTCTGCCCCACTGGGTACCCACACG
TCCTACTGCTTCTGAAGCCCGCACTGCCACCGCTCCTGCCCCAGAAGGTTGTTTAGTTTCCACGTAGGCAGGTCG
CTTTGTGCTCTGAGTGCGCTGCTGTGTGTTCTCTCTATAGTTCTGTGTCATAAAGCTGTCCTGGCCAGCCTTCA
AGCTGGTGTGGCCACTCTTGATGTGAGGCGTGTTCGGTTCCAGGGGGGACATGGGAGGGGCTGCACAGTGGCCCCGA
GGICATGCTTGCTTCCACCTGCAGGTGCATTTGGTCCTTTCCATGGCCAGGAAGCCCTGTGGGCTGCACTTTTTTA
TGCTTGCAAGTAACAAGAGACTCCAGAGTCTCACCAGGTGCAGAGTTGGCACATATTAATTAATAAAATTCTAAT
GATCTTGCTACCAGCAATAAATCAAGTAGGCCAAGTGAAACTGGGCTTTAAAAGGATGGATTTCAAATACACTG
TGCCCCACTAGAAGCTTCGAAGGGCCTCGTCCCTCTGCTACAGCCCTGGGAGGAGCCAGGATCCTTGTTGGTCTAG
CTAAATACTGTTAGGGGAGTGTGCCCCATCTCATCATTTTCAAGATAGCAGAGTCATAGTTGGGCACCCAGTGAT
TGGGTTCAAAAATAAAGCTGGTCTGCCTCTTC

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FIGURE 5817

MGCDGGTIPKRHELVKGPKEKVDKDAELVAQWNYCTLSQEILRRPIVACELGRLYNKDAVIEFLLDKSAEKAL
GKAASHIKSIKNVTELKLSDNPAWEGDKGNTKGDKHDDLQRARFICPVVGLEMNGRHRFCFLRCCGCVFSEALK
EIKAEVCHTCGAAFQEDDVIMLNGTKEDVDVLKTRMEERRLRKLEKKTKKPKAAESVSKPDVSEEAPGPSKVKT
GKPEEASLDSREKKTINLAPKSTAMNESSSGKAGKPPCGATKRSIADSESEAYKSLFTTHSSAKRSKEESAHWVT
HTSYCF

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FIGURE 5818

CCGAGGCGGCCTCTTGTGCGATCCAGGGCGCACAAAGGCTGGGAGAGCGCCCCGGGGCCCCCTGCTATCCGCGCCGG
AGGTTGGAAGAGGGTGGGTTGCCGCCGCCGAGGGCGAGAGCGCCAGAGGAGCGGGAAGAAGGAGCGCTCGCCCCG
CCCCGCTGCTCTCTCGCTGCTCTCCCCGGCGTTGGCTCTCTGGACTCCTAGGCTTGCTGGCTGCTCCTCCCAACCCG
CGCCCGCTCTCACTCGCTTTTCGTTCCGCCGGGGCTGCTTTCCAAGCCCTGCGGTGCGCCCCGGGCGAGTGCGG
GGCGAGGGGCCGGGGCCAGCACCGAGCAGGGGGCGGGGTCCGGGCAGAGCGCGGCCGGCCGGGGAGGGGCCAT
GTCTGGCGCGGGCGCAGCGGGGCCGTCTGCAGCAAGTGACCGAGCGGCGCGGACGGCCGCCTGCCCCCTCTGCC
ACCTGGGGCGGTGCGGGCCCGAGCCCGGAGCCCGGTAGCGCGTAGAGCCGGCGCGATGCACGTGCGCTCACTG
CGAGCTGCGGCGCCGCACAGCTTCGTGGCGCTCTGGGCACCCCTGTTCTCTGCTGCGCTCCGCCCTGGCCGACTTC
AGCCTGGACAACGAGGTGCACTCGAGCTTCATCCACCGGCGCCTCCGCAGCCAGGAGCGGCGGGAGATGCAGCGC
GAGATCCTCTCCATTTTGGGCTTGCCCCACCGCCCGCGCCCGCACCTCCAGGGCAAGCACAACTCGGCACCCATG
TTCATGCTGGACCTGTACAACGCCATGGCGGTGGAGGAGGGCGGCGGGCCCGGCGGCCAGGGCTTCTCTACCCC
TACAAGGCCGTCTTCAGTACCCAGGGCCCCCTCTGGCCAGCCTGCAAGATAGCCAATTCTCTACCCAGCGCCGAC
ATGGTCATGAGCTTCGTCAACCTCGTGAACATGACAAGGAATTCTTCCACCCACGCTACCACCATCGAGAGTTC
CGGTTTGATCTTTCCAAGATCCCAGAAGGGGAAGCTGTACGGCAGCCGAATTCCGGATCTACAAGGACTACATC
CGGGAACGCTTCGACAATGAGACGTTCGGGATCAGCGTTTATCAGGTGCTCCAGGAGCACTTGGGCAGGGAATCG
GATCTCTTCTGCTCGACAGCCGTACCCCTCTGGGCCCTCGGAGGAGGGCTGGCTGGTGTGTTGACATCACAGCCACC
AGCAACCACTGGGTGGTCAATCCGCGGCACAACCTGGGCCTGCAGCTCTCGGTGGAGACGCTGGATGGGCAGAGC
ATCAACCCCAAGTTGGCGGGCCTGATTGGGCGGCACGGGCCCCAGAACAAGCAGCCCTTCATGGTGGCTTTCTTC
AAGGCCACGGAGGTCCACTTCCGCAGCATCCGGTCCACGGGGAGCAAACAGCGCAGCCAGAACCGCTCCAAGACG
CCCAAGAACCAGGAAGCCCTGCGGATGGCCAACGTGGCAGAGAACAGCAGCAGCGACCAGAGGCAGGCCGTGTAAG
AAGCAGGAGCTGTATGTCAGCTTCCGAGACCTGGGCTGGCAGGACTGGATCATCGCGCCTGAAGGCTACGCCGCC
TACTACTGTGAGGGGGAGTGTGCCTTCCCTCTGAACCTCTACATGAACGCCACCAACCAGCCATCGTGCAGACG
CTGGTCCACTTCATCAACCCGGAAACGGTGGCCAAAGCCCTGCTGTGCGCCACGCAGCTCAATGCCATCTCCGTC
CTCTACTTCGATGACAGCTCCAACGTCACTCTGAAGAAATACAGAAACATGGTGGTCCGGGCCTGTGGCTGCCAC
TAGCTCCTCCGAGAAATTCAGACCCTTTGGGGCCAAGTTTTTCTGGATCCTCCATTGCTCGCCTTGGCCAGGAACC
AGCAGACCAACTGCCTTTTGTGAGACCTTCCCCTCCCTATCCCCAACTTTAAAGGTGTGAGAGTATTAGGAAACA
TGAGCAGCATATGGCTTTTGATCAGTTTTTCAGTGGCAGCATCCAATGAACAAGATCCTACAAGCTGTGCAGGCA
AAACCTAGCAGGAAAAAAAACAACGCATAAAGAAAAATGGCCGGGCCAGGTCATTGGCTGGGAAGTCTCAGCCA
TGCACGGACTCGTTTCAGAGGTAATTATGAGCGCCTACCAGCCAGGCCACCCAGCCGTGGGAGGAAGGGGGCGT
GGCAAGGGGTGGGCACATTGGTGTCTGTGCGAAAGGAAAATTGACCCGGAAGTTCTGTATAAATGTCACAATA
AAACGAATGAATG

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FIGURE 5819

AGCCACTGCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGTACGGGCACTGGGCGACTCT
GTGCCTCGCTGAAGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATA
TGCATTTTTTGTGCAAACTTGTCTGGGAGGAGCATAAGAAGAAGCACTCAGATGCTTCAGTCAACTTCTCAGAGTT
TTCTAACAAGTGCCCATTTATGAAAGACAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAAGAAGTTCA
AGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCCTGTTCTGCTCTGAGTATCACCCAAAAATCAAAG
GAGAACATCCTGGCCTGTCCATTGGTGATGTTGCCAAGAACTGGGAGAGATGTGGAATAAACTGCTGCAGATG
ACAAGCAGCCTGGTGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCAAGCTA
AAGGAAAGCCTGAGGCAGCAAAAAGGGAGTTGTCAAAGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAG
ATGAGGAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGAAGATGATGATGAATAAGTTGGCT
CTAGCGCAGTTTTTTTTCTTGTCTTAAAGCATTAAACGCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAAT
TGAAATGTAAGGCTGTGTAAGATTGTTTTTAACTGTACAGTGTGTTTTTTGTATGGTTAATACTACTACCAA
TGTGTCTTTAGATGGCCCTGTCTGGTGGTATTTCAATAGTCACTAACCTTGCCTGGTAGAGTATGGGGTTGT
AAATTGGCATGGAATTTAAAGCAGTTCTTGTGGTGCGCAGCACAAATTAGTTATATATGGGGATGGTAGTTT
TTTCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTCTGTAACTGAATACCACTCTGTAATTGC
AAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTT

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FIGURE 5820

MGKGDPKKPRGKMSSYAFFVQTCREEHKKKHSDASVNFSEFSNKCHYERQMKTYIPPKGETKKKFKDPNAPKRPF
SAFFLFCSEYHPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPGKKAAKLKEYEKDIAAYQAKGPEAAKKG
VVKAEKSKKKKEEEEEDEEDEEEEEDEEDEDDDE

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FIGURE 5821

TTTAAAGCTGGGAGGTTCTGCCACCAAGCACGGCCTTCCCACTGGGAACACAACTTGCTGGCGGGAAGAGCCCG
GAAAGAAACCTGTGGATCTCCCTTCGAGATCATCCAAAGAGAAGAAAGGTGACCTCACATTCTGTGCCCTTAGCA
GCACTCTGCAGAAATGCCTCCTCAGCTGCAAAACGGCCTGAACCTCTCGGCCAAAGTTGTCCAGGGAAGCCTGGA
CAGCCTACCCAGGCAGTGAGGGAGTTTCTCGAGAATAACGCTGAGCTGTGTGAGCCTGATCACATCCACATCTG
TGACGGCTCTGAGGAGGAGAATGGGCGGCTTCTGGGCCAGATGGAGGAAGAGGGCATCCTCAGGCGGCTGAAGAA
GTATGACAACCTGTGGTTGGCTCTCACTGACCCCAGGGATGTGGCCAGGATCGAAAGCAAGACGGTTATCGTCAC
CCAAGAGCAAAGAGACACAGTGCCCATCCCCAAAACAGGCCTCAGCCAGCTCGGTCTGCTGGATGTGAGAGGAGGA
TTTTGAGAAAGCGTTCAATGCCAGGTTCCAGGGTGCATGAAAGGTGCGACCATGTACGTATCCCATTCAGCAT
GGGGCCGCTGGGCTCGCTCTGTCAAAGATCGGCATCGAGCTGACGGATTACCCCTACGTGGTGGCCAGCATGCG
GATCATGACGCGGATGGGCACGCCCGTCTGGAAGCAGTGGGCGATGGGGAGTTTGTCAAATGCCTCCATTCTGT
GGGGTGCCCTCTGCCTTTACAAAAGCCTTTGGTCAACAACTGGCCCTGCAACCCGAGCTGACGCTCATCGCCCA
CCTGCCTGACCGCAGAGAGATCATCTCCTTTGGCAGTGGGTACGGCGGGAAGTCTGCTGCTCGGGAAGAAGTGCTT
TGCTCTCAGGATGGCCAGCCGGCTGGCCAAGGAGGAAGGGTGGCTGGCAGAGCACATGCTGATTCTGGGTATAAC
CAACCTTGAGGGTGAGAAGAAGTACCTGGCGGCCGCATTTCACAGCGCTGCGGGAAGACCAACCTGGCCATGAT
GAACCCAGCCTCCCGGGTGGAAGGTTGAGTGCCTCGGGGATGACATTGCCTGGATGAAGTTTGACGCACAAGG
TCATTTAAGGGCCATCAACCCAGAAAATGGCTTTTTTCGGTGTGCTCCTGGGACTTCAGTGAAGACCAACCCCAA
TGCCATCAAGACCATCCAGAAGAACACAATCTTTACCAATGTGGCCGAGACCAGCGACGGGGCGTTTTACTGGGA
AGGCATTGATGAGCCGTAGCTTCAGGTGTCACCATCACGTCTGGAAGAATAAGGAGTGGAGCTCAGAGGATGG
GGAACCTTGTGCCACCCCAACTCGAGGTTCTGCACCCCTGCCAGCCAGTGCCCCATCATTGATGCTGCCTGGGA
GTCTCCGGAAGGTGTTCCCATTTGAAGGCATTATCTTTGGAGGCCGTAGACCTGCTGGTGTCCCTCTAGTCTATGA
AGCTCTCAGCTGGCAACATGGAGTCTTTGTGGGGGCGGCCATGAGATCAGAGGCCACAGCGGCTGCAGAACATAA
AGGCAAAATCATCATGCATGACCCCTTTGCCATGCGGCCCTTCTTTGGCTACAACCTTCGGCAAAATACCTGGCCCA
CTGGCTTAGCATGGCCAGCACCCAGCAGCCAAACTGCCAAGATCTTCATGTCAACTGGTTCCGGAAGGACAA
GGAAGGCAAAATTCCTCTGGCCAGGCTTTGGAGAGAACTCCAGGGTGTGAGTGGATGTTCAACCGGATCGATGG
AAAAGCCAGCACCAAGCTCACGCCCATAGGCTACATCCCAAGGAGGATGCCCTGAACCTGAAAGGCCTGGGGCA
CATCAACATGATGGAGCTTTTCAGCATCTCCAAGGAATTCTGGGAGAAGGAGGTGGAAGACATCGAGAAGTATCT
GGAGGATCAAGTCAATGCCGACCTCCCTGTGAAATCGAGAGAGATCCTTGCCCTGAAGCAAAGAATAAGCCA
GATGTAAATCAGGGCCTGAGTGCTTTACCTTTAAAATCATTCCCTTTCCCATCCATAAGGTGCAGTAGGAGCAAGA
GAGGGCAAGTGTTCCCAAAATTGACGCCACCATAATAATCATCACACACCGTGAGCAGATCTGAAAGGCACACTT
TGATTTTTTTAAGGATAAGAACCACAGAACTGGGTAGTAGCTAATGAAATTGAGAAGGGAAATCTTAGCATGC
CTCCAAAATTCACATCCAATGCATAGTTTGTTCAAATTTAAGGTTACTCAGGCATTGATCTTTTCAGTGTTTTT
TCACTTTAGCTATGTGGATTAGCTAGAATGCACACCAAAAAATACTTGAGCTGTATATATATATGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGCATGTATGTGCACATGTGTCTGTGTGGTATATTTGTGTATGTGTATTTGT
ATGTACTGTTATTGAAAATATATTTAATACCTTTGGAAAAATCTTGGGCAAGATGACCTACTAGTTTTCTTGAA
AAAAAGTTGCTTTGTTATTAATATTGTGCTTAAATTATTTTATACCATTTGTTTCCTTACCTTTACATAATTGC
AATATTTCCCTTACTACTTCTTGGAAAAAATTACAAAATGAAGTTTTATAGAAAAG

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FIGURE 5822

MPPQLQNGLNLSAKVVQGSLDSPQAVREFLENNALCQPDHIHICDGSEEENGRLLGQMEEEGILRRLKKYDNC
WLALTDPRDVARIESTVIVTQEQRDTVPIPKTGLSQLGRWMSEEDFEKAFNARFPGCMKGRITMYVIPFSMGPLG
SPLSKIGIELTDSPIYVVASMRIMTRMGTPVLEAVGDGEFVKCLHSVGCPLPLQKPLVNNWPCNPELTILIAHLPDR
REIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLILGITNPEGEKKYLAAAFPACGKTNLAMNPSL
PGWKVECVGDDIAWMKFDAQGHLRAINPENGFFGVAPGTSVKTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDE
PLASGVTITSWKNKEWSSEDGEPCAHFNSRFCTPASQCPIIDAAWESPGEVPIEGIIFGGRRPAGVPLVYEALSW
QHGVFVGAAMRSEATAAAEHKGKIIMHDPFAMRPFPGYNFGKYLAHWLSMAQHPAAKLPKIFHVNWFRKDKEGKF
LWPGFGENSRVLEWMFNRIDGASTKLTPIGYIPKEDALNLKGLGHINMMELFSISKEFWEKEVEDIEKYLEDOV
NADLPCEIEREILALKQRISQM

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FIGURE 5823A

AACCCGATCTCCTTGGACTTGAATGAGGAGGAGGAGGCGGCGGCGGCGGCGGCGGAGGCGCTCGGCTGGGGA
AAGCTAGCGGCAGAGGCTCAGCCCCGGCGGCAGCGCGCCCCGCTGCCAGCCATTTTCCGGACGCCACCCGCG
GGCACTGCCGACGCCCCCGGGGCTGCCGAGGGGAGGCGGGGGGGCGCAGCGGAGCGGGTCCCGCGCACTGAGC
CCCGCGGCGCCCCGGGAACCTGGCGGCGACCCGAGCCCGGCGAGCCGGGGCGCGCTCCCCCGCGCGCGCTCC
TGCAATGCGGGGCCCCAGCTCCGGGCGCCGCGGAGCCCCCCCCGCGCGCCCCGAGCCCCCGCGCCCCGCGCC
GCGCCCGCGCGCGCTCCATGCACCGCTTGATGGGGGTCAACAGCACCGCCCGCGCGCGCGCGGCGAGCCCAATG
TCTCTGCACGTGCAACTGCAAACGCTCTTTGTTCCAGAGCATGGAGATCACGGAGCTGGAGTTTGTTCAGATCA
TCATCATCGTGGTGGTGATGATGGTGATGGTGGTGGTGATCAGTGCCTGCTGAGCCACTACAAGCTGTCTGCAC
GGTCTTTCATCAGCCGGCACAGCCAGGGGCGGAGGAGAGAAGATGCCCTGCTCTCAGAAGGATGCCTGTGGCCCT
CGGAGAGCACAGTGTGAGGCAACGGAATCCCAGAGCCGAGGTCTACGCCCCGCTCGGCCCACCGACCGCTTG
CCGTGCCGCCCTTCGCCCAGCGGGAGCGCTTCCACCGCTTCCAGCCACCTATCCGTACCTGCAGCACGAGATCG
ACCTGCCACCCACCATCTCGCTGTGACGCGGGGAGGAGCCCCACCTACCAGGGCCCCGTGACCCCTCCAGCTTC
GGGACCCCGAGCAGCAGCTGGAACCTGAACCGGGAGTGGTGCGCGCACCCCCAAACAGAACCATCTTCGACAGTG
ACCTGATGGATAGTGCCAGGCTGGGCGGCCCCCTGCCCCCAGCAGTAACCTGGGCATCAGCGCCACGTGCTACG
GCAGCGGCGGGCGCATGGAGGGGCGCGCCACCTACAGCGAGGTCATCGGCCACTACCCGGGGTCTCTCTTCC
AGCACCAGCAGAGCAGTGGGCGGCCCCCTCTTGCTGGAGGGGACCCGGCTCCACCACACACATCGCGCCCCCTAG
AGAGCGCAGCCATCTGGAGCAAAGAGAAGGATAAAGAGAAAGGACACCCCTCTCTAGGGTCCCCAGGGGGGCGGG
CTGGGCTGCGTAGGTGAAAAGGCAGAACTCCGCGCTTCTTAGAAGAGGAGTGAGAGGAAGCGGGGGGCGCA
GCAACGCATCGTGTGGCCCTCCCTCCACCTCCCTGTGTATAAATATTTACATGTGATGTCTGGTCTGAATGCA
CAAGCTAAGAGAGCTTGCAAAAAAAAAAAGAAAAAAGAAAAAACCACGTTTCTTTGTGAGCTGTGTCTT
GAAGGCAAAAGAAAAAAATTTCTACAGTAGTCTTTCTTGTTTCTAGTTGAGCTGCGTGCGTGAATGCTTATTTT
CTTTTGTATGATAATTTCACTTAACCTTTAAAGACATATTTGCACAAAACCTTTGTTTAAAGATCTGCAATATT
ATATATATAAATATATATAAGATAAGAGAACTGTATGTGCGAGGGCAGGAGTATTTTGTATTAGAAGAGGCCCT
ATTAAGGAGGAGGTTGTTTTCTGAACTAGAAGAGGAAAAAATGGCAATTTTGTAGTGCAAGTCAGAAAGTGT
GTATTACCTTGTAAAGAAAAAATTACAAAGCAGGGGTTTAGAGTTATTTATATAAATGTTGAGATTTTGCACATA
TTTTTAAATATAAATATGTGAGTGTGCTTGTGATGGAACCTTCTCTTGTGTCTGTTGAGACTTTAAGGGAGAAAT
GTCGGAATTTTCAAGTGCCTGACGCGCAGAGGGTGAGCCCCCGTGGAGTCTGCAGAGAGGCTTGGCCAGGAGCG
GCGGGCTTTCCCGAGGGGCCACTGTCCCTGCAGAGTGATGCTTCTGCCTAGTGACAGGTTATCACCACGTTATA
TATTCCTACCGAAGGAGACACCTTTTCCCCCTGACCCAGAACAGCCTTTAAATCACAGCAAAATAGGAAAGT
TAACCACGGAGGCACCGAGTTCCAGGTAGTGGTTTTGCCTTTCCCAAAATGAAAATAAACTGTTACCGAAGGAA
TTAGTTTTTCTCTCTCTTTTTTCCAACGTGTAAGGTCCCCGTGGGGTGGAGCATGGTGCCCCCTACAAGCCGAG
CGGCTGGTGCCCGGCTACCAGGGACATGCCAGAGGGCTCGATGACTTGTCTCTGCAGGGCGCTTTGGTGGTTGT
TCAGCTGGCTAAAGGTTTACCGGTGAAGGCAGGTGCGGTAACCTGCCGCACTGGACCCCTAGGAAGCCCCAGGTATT
CGCAATCTGACCTCCTCTGTCTGTTTCCCTTACGGATCAATTTCTCACTTAAGAGGCCAATAAACAACCCAAACA
TGAAAAGGTGACAAAGCCTGGGTTTCTCCAGGATAGGTGAAAGGGTTAAATGAGTAAAGCAGTTGAGCAACAC
CAACCCGAGCTTCGGGCGCAGAACTCTTACCTTCTCTTCCCTTTCCATCTCCTTTCCCCGCGGAAACAACGCT
TCCCTTCTGGTGTGTCTGTTGATCTGTGTTTTCACTTACATCTCTCTTAGACTCCGCTCTTGTCTCCAGGTTTT
CACCAGATAGATTTGGGGTTGGCGGGACCTGCTGGTGACGTGCAGGTGAAGGACAGGAAGGGGCATGTGAGCGTA
AATAGAGGTGACCAGAGGAGAGCATGAGGGGTGGGGCTTTGGGACCCACCGGGGCCAGTGGCTGGAGCTTGACGT
CTTTCTCCCATGGGGGTGGGAGGGCCCCAGCTGGAAGAGCAGACTCCCAGCTGCTACCCCTCCCTTCCCAT
GGGAGTGGCTTTCCATTTTGGGCAGAACTGCTGACTAGTAGACTAACATAAAAGATATAAAAGGCAATAACTATTG
TTTGTGAGCAACTTTTTTATAACTTCCAAAACAAAAACCTGAGCACAGTTTTGAAGTTCTAGCCACTCGAGCTCA
TGCATGTGAAACGTGTGCTTTACGAAGGTGGCAGCTGACAGACGTGGGCTCTGCAIGCCGCCAGCCTAGTAGAAA
GTTCTCGTTTCAATGGCAACAGCAGAACCTGCCTCTCCGTGAAGTCGTGAGCCTAAAATTTGTTTCTCTCTTGAAG
AGGATTCTTTGAAAAGGTCTGCAGAGAAATCAGTACAGGTTATCCCGAAAGGTACAAGGACGCACTTGTAAGA
TGATTAAACGTATCTTTCTTTATGTGACGCGTCTCTAGTGCCCTTACTGAAGAAGCAGTGACACTCCCGTCGCT
CGGTGAGGACGTTCCCGGACAGTGCCCTCACTCACCTGGGACTGGTATCCCTCCAGGGTCCACCAAGGGCTCCT
GCTTTTACAGACCCCCATCATCTCGCGCTCCTCACCTGTCTCTACCAGGGAGGTGCTAGCTTGGTGAGGTT

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FIGURE 5823B

ACTCCTGCTCCTCCAACCTTTTTTTGCCAAGGTTTGTACACGACTCCCATCTAGGCTGAAAACCTAGAAGTGGAC
CTTGTGTGTGTCATGGTGTGAGCCCAAAGCCAGGCTGAGACAGTCCCTCATATCCTCTTGAGCCAAACTGTTTGG
GTCTCGTTGCTTCATGGTATGGTCTGGATTTGTGGGAATGGCTTTGCGTGAGAAAGGGGAGGAGAGTGGTTGCTG
CCCTCAGCCGGCTTGAGGACAGAGCCTGTCCCTCTCATGACAACTCAGTGTGAAGCCCAGTGTCCTCAGCTTCA
TGTCCAGTGGATGGCAGAAGTTCATGGGGTAGTGGCCTCTCAAAGGCTGGGCGCATCCCAAGACAGCCAGCAGGT
TGTCTCTGAAAACGACCAGAGTTAAGCTCTCGGCTTCTCTGCTGAGGGTGCACCCCTTTCCTCTAGATGGTAGTTG
TCACGTTATCTTTGAAAACCTTTGGACTGCTCCTGAGGAGGCCCTCTTTTCCAGTAGGAAGTTAGATGGGGGTTT
TCAGAAGTGGCTGATTGGAAGGGGACAAGCTTCGTTTCAGGGGTCTGCCGTTCCATCCTGGTTTCAGAGAAGGCCG
AGCGTGGCTTTCTCTAGCCTTGTCACCTGTCTCCCTGCCTGTCAATCACCACCTTTCCTCCAGAGGAGGAAAATTA
TCTCCCTGCAAAGCCCGGTTCTACACAGATTTACAAATTGTGCTAAGAACCGTCCGTGTTCTCAGAAAGCCCA
GTGTTTTTGCAAAGAATGAAAAGGGACCCCATATGTAGCAAAAATCAGGGCTGGGGGAGAGCCGGGTTCAATCCC
TGTCTCATTGGTCGTCCCTATGAATTGTACGTTTCAGAGAAAATTTTTTTTCCTATGTGCAACACGAAGCTTCCA
GAACCATAAAATATCCCGTCGATAAGGAAAGAAAATGTCGTTGTTGTTGTTTTCTGGAAACTGCTTGAAATCTT
GCTGTACTATAGAGCTCAGAAGGACACAGCCCGTCCCTCCCTGCCTGATTCCATGGCTGTTGTGCTGATTC
CAATGCTTTCACGTTGGTTCCCTGGCGTGGGAACGCTCTCCTTTGCAGCCCCATTTCCTCAAGCTCTGTTCAAGTT
AACTTATGTAAGCTTTCCGTGGCATGCGGGGCGCGCACCCACGTCCCCGCTGCGTAAGACTCTGTATTGGATG
CCAATCCACAGGCCTGAAGAACTGCTTGTGTTGTATCAGTAATCATTAGTGGCAATGATGACATTCTGAAAAGC
TGCAATACTTATACAATAAATTTTACAATTCTTTGG

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FIGURE 5824

GCGCGCCACCCGGTAGAGGACCCCGCCCGTGCCCCGACCGGTCCCCGCCTTTTTGTAAACTTAAAGCGGGCG
CAGCATTAACGCTTCCCGCCCCGGTGACCTCTCAGGGGTCTCCCCGCCAAAGGTGCTCCGCCGCTAAGGAACATG

CGGAAGGTGGAGCAGGTCTGAGCCTCGAGCCGCAGCAGAGCTCAAATTCCGAGGTCCCTTCACCGATGTTGTC
ACCACCAACCTAAAGCTTGGCAACCCGACAGACCGAAATGTGTGTTTTAAGGTGAAGACTACAGCACCACGTAGG
TACTGTGTGAGGCCCAACAGCGGAATCATCGATGCAGGGGCCTCAATTAATGTATCTGTGATGTTACAGCCTTTC
GATTATGATCCCAATGAGAAAAGTAAACACAAGTTTTATGGTTTCAGTCTATGTTTGCTCCAAGTACACTTCAGAT
ATGGAAGCAGTATGGAAGGAGGCAAAACCGGAAGACCTTATGGATTCAAACTTAGATGTGTGTTGAATTGCCA
GCAGAGAATGATAAACCACATGATGTAGAAATAAATAAAATTATATCCACAAGTGCATCAAAGACAGAAACACCA
ATAGTGTCTAAGTCTCTGAGTTCTTCTTTGGATGACACCGAAGTTAAGAAGGTTATGGAAGAATGTAAGAGGCTG
CAAGGTGAAGTTGAGAGGCTACGGGAGGAGAACAAGCAGTTCAAGGAAGAAGATGGACTGCGGATGAGGAAGACA
GTGCAGAGCAACAGCCCCATTTACGATTAGCCCCAACTGGGAAGGAAGAAGGCCTTAGCACCCGGCTCTTGCT
CTGGTGGTTTTGTTCTTTATCGTTGGTGTAATTATTGGGAAGATTGCCTTGTAGAGGTAGCATGCACAGGATGGT
AAATTGGATTGGTGGATCCACCATATCATGGGATTTAAATTTATCATAACCATGTGTAAAAAGAAATTAATGTAT
GATGACATCTCACAGGTCTTGCTTTAAATTACCCCTCCCTGCACACACATACACAGATACACACACACAAATAT
AATGTAACGATCTTTTAGAAAGTTAAAAATGTATAGTAACTGATTGAGGGGAAAAGAATGATCTTTATTAATGA
CAAGGGAAACCATGAGTAATGCCACAATGGCATATTGTAAATGTCATTTTAAACATTGGTAGGCCCTGGTACATG
ATGCTGGATTACCTCTCTTAAATGACACCCCTTCCCTCGCCTGTTGGTGCTGGCCCTGGGGAGCTGGAGCCCAGC
ATGCTGGGGAGTGCGGTGAGCTCCACACAGTAGTCCACAGTGGCCCACTCCCGGCCAGGCTGCTTCCGTGTC
TTCAGTTCTGTCCAAGCCATCAGCTCCTTGGGACTGATGAACAGAGTCAGAAGCCCAAAGGAATTGCACTGTGGC
AGCATCAGACGTAAGTGCATAAGTGAGAGGCGTGTGTTGACTGATTGACCCAGCGCTTTGGAAATAAATGGCAG
TGCTTTGTTCACTTAAAGGGACCAAGCTAAATTTGATTGGTTCATGTAGTGAAGTCAAAGTGTATTTCAGAGAT
GTTTAATGCATATTTAACTTATTTAATGTATTTTCATCTCATGTTTTCTTATTGTGACAAAGAGTACAGTTAATGCT
GCGTGCTGCTGAACTCTGTTGGGTGAACTGGTATTGCTGCTGGAGGGCTGTGGGCTCCTCTGTCTCTGGAGAGTC
TGGTCATGTGGAGGTGGGGTTTATTGGGATGCTGGAGAAGAGCTGCCAGGAAGTGTTTTTCTGGGTGAGTAAAT
AACAAGTGTATAGGCAGGGAAATTTCTAGTAGTGACAGTCAACTCTAGGTTACCTTTTTTAAATGAAGAGTAGTC
AGTCTTCTAGATTGTTCTTATACCACTCTCAACCATTACTCAGCTTCCAGCGCCAGGTCCAAGTTTGAGCCT
GACCTCCCCTTGGGGACCTAGCCTGGAGTCAGGACAAATGGATCGGGCTGCAAAGGGTTAGAAGCGAGGGCACCA
GCAGTTGTGGGTGGGGAGCAAGGGAAGAGAGAACTCTTCAGCGAATCCTTCTAGTACTAGTTGAGAGTTTGACT
GTGAATTAATTTATGCCATAAAAGACCAACCCAGTTCTGTTTGACTATGTAGCATCTTGAAAAGAAAAATTATA
ATAAAGCCCCAAAATTAAGA

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FIGURE 5825

MAKVEQVLSLEPQHELKFRGPFTDVVTTNLKLGNPDRNVCFKVKTAPRRYCVRPNSGIIDAGASINVSVMLQP
FDYDPNEKSKHKFMVQSMFAPTDTSMEAVWKEAKPEDLMDSKLRVFEPAENDKPHDVEINKIISTTASKTET
PIVSKSLSSSLDDTEVKKVMEECKRLQGEVQRLREENKQFKEEDGLRMRKTVQSNSPIALAPTGKEEGLSTRLL
ALVVLFFIVGVIIGKIAL

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FIGURE 5826

CTCGCCTCAGTCTCCTCTGTCTCTCCCAGGCAAGAGGACCGGCGGAGGCACCTCTCTCGAGTCTTAGGCTGCGG
AATCTAAGACTCAGCGAGAGGAGCCCGGAGGAGACAGAACTTTCCCTTTTTTCCCATCCCTTCTTCTTGCTCA
GAGAGGCAAGCAAGGCGCGGAGCTTTAGAAAAGTTCTTAAGTGGTCAGGAAGGTAGGTGCTTCCCTTTTTCTCCTC
ACAAGGAGGTGAGGCTGGGACCTCCGGGCCAGCTTCTCACCTCATAGGGGTACCTTTCCCGGCTCCAGCAGCCA
ATGTGCTTCGGAGCCGCTCTCTGCAGAGCCAGAGGGCAGGCCGGCTTCTCGGTGTGTGCCTAAGAGGATGATCG
GAGGTCCCGGGCTCAGCAGTGGCGCCGAGCTCGCCATAATTACAACGACCTGTGCCCCCCATAGGCCGCCGGGC
AGCCACCGCGCTCCTCTGGCTCTCCTGTCTCCATCGCGCTCCTCCGCGCCCTTGCCACCTCCAACGCCCCGTGCCCA
GCAGCGCGGGCTGCCCAACAGCGCCGGAGCTTCCCTAACGCCCCACCACCGCTCCGGCGCCAGGTATTCCCTGA
GTCCCCGAATCGGAATCTGACCACGAGCAGCAGGAGGCAGACCTTGAGCTGTCCCTCCCGAGTGCCTAGAGTA
CGAGGAAGAGTTGACTACGAGACCGAGAGCGAGACCGAGTCCGAAATCGAGTCCGAGACCGACTTCGAGACCGA
GCCTGAGACCGCCCCCACCCTGAGCCCCGAGACCGAGCTGAAGACGATCGCGCCCCGGTGGTCCCAAGCACTC
CACCTTCGGCCAGTCCCTCACCAGCGTCTGCACGCTCTCAAGTTGCGAAGCCCCGACGCTCCCAAGTCGCGC
GCCGCCCAGCACTCAGGAGCCCCAGAGCCCCAGGGAAGGGGAGGAGCTCAAGCCCCGAGGACAAAGATCCAAGGGA
CCCCGAAGAGTCGAAGGAGCCCCAAGGAGGAGAAGCAGCGCGTCTGCTGCAAGCCAAAGAAGCCACCCGCCGTGA
CGCGTCCCGGAGTCCCTTCCAAAAGGGACCCATCCCCATCCGGCGTCACATAATGGAGGACCGCGTCCAGATT
CTCCTTGTTTTTATGGATTGAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATGAGGATCCTGCAT
GTTAATGGGTTTAAATGGAGAGGGCGGCGAAGAGGACCCGAGGCTGCAAGGAGCAACAGCGATGGCAGTGAGAAG
GCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCATGAGCAACCTG
GTGCCCCCGTGGAGCTGGCCAACCCGAGAACCAGTTGAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCT
GACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCTGCCTGCTAC
GAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCAGTACTTCTGGACAAGATCGACGTGATCAAGCAGGCT
GACTATGTGCCGAGCGATCAGGACCTGCTTGCCTGCCGTGCTCTGACTTCTGGAATCTTTGAGACCAAGTTCCAG
GTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTC
AACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACC
AACC GCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATC
CTGTTCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCTTCTGTTGGGAAATCGAAGATTGAGGACTACTTTCCA
GAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAG
TACTTCATTGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCCTCATTTT
ACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTACGCGCATGCACCTT
CGTCAGTACGAGCTGCTCTAAGAAGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAATTAATTAAAGTGAA
ACGTAATGTACAAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCCGAGTGA
TTTTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGCGGCCTACAGAAA
AAGGAAAAAAGGCCACAAAAGTTCCCTCTCACTTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAAACAAATAAAA
TGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAATCAAAATAAAATTAATGTG
AGCAAAGAAAAAAA

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FIGURE 5827

MDRRSRAQQWRRARHNYNDLCPPIGRRAATALLWLSCSIALLRALATSNARAQQRAAAQQRRSFLNAHHRSGAQV
FPESPESEDHEHEEADLELSLPECLEYEEEFDYETESETESEIESETDFETEPETAPTTEPETEPEDDRGPVVP
KHSTFGQSLTQRLHALKLRS PDASPSRAPPSTQEPQSPREGEELKPEDKDPRDPEESKEPKEEKQRRRCKPKKPT
RRDASPESPSKKGPIPIRRH

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FIGURE 5828

ATGCAGGCCTTGAGGCTTCGGCCAGCACTCATGGAGCCCGGAGCCTTCAGTGGTGCCAGACCAGGCCTGGGAGGA
TACAGCCCTCCACCAGAAGAAGCTATGCCCTTTGAGTTTGACCAGCCTGCCAGAGAGGCTGCAGTCAACTTCTC
TTACAGGTCCCAGACCTTGCTCCAGGAGGCCAGGTGCTGCAGGGGTCCCCGGAGCTCCTCCCGAGGAGCCCCAA
GCCCTCAGGCCTGCAAAGGCTGGCTCCAGAGGAGGTACAGCCCTCCCCCTGAGGAGACTATGCCATTTGAGCTT
GATGGAGAAGGATTTGGGGACGACAGCCCACCCCGGGGCTTTCCCGAGTTATCGACAAGTCGACGGCAGCAGC
CAGTTCGCGGCAGTCGCGGCTCGAGTGCGGTCCGCTCACTCCCGCCGGAACGCGCTCCCTCTGGGTCCCA
GGCGCCATCGGCAGCCCATCCCAAGAGGCTGTCAGACCTCCTTCTAACTTCACGGGCAGCAGCCCTGGATGGAG
ATCTCCGGACCCCGTTTCGAGATTGGCAGCGCCCCGCTGGGGTTCGACGACACTCCCGTCAACATGGACAGCCCC
CCAATCGCGCTTGACGGCCCCGCCATCAAGGTCTCCGAGCCCCAGATAAGAGAGAGCGAGCAGAGAGACCCCCA
GTTGAGGAGGAAGCAGCAGAGATGGAAGGAGCCGCTGATGCCGCGGAGGGAGGAAAAGTACCCTCTCCGGGGTAC
GGATCCCCTGCCGCGGGGCAGCCTCAGCGGATACCGCTGCCAGGGCAGCCCTGCAGCCCCAGCCGATCCTGAC
TCCGGGGCAACCCAGAAGATCCCGACTCCGGGACAGCACCAGCCGATCCTGACTCCGGGGCATTTCGACGCCGAT
CCCGACTCCGGGGCAGCCCTGCCGCCCCAGCCGATCCCGACTCCGGGGCGGCCCTGACGCCCCAGCCGATCCC
GACTCCGGGGCGGCCCTGACGCCCCAGCCGATCCAGATGCCGGGGCGGCCCTGAGGCTCCCGCCGCCCTGCG
GCTGCTGAGACCCGGGCAGCCCATGTCGCCCCAGCTGCCCGAGCGCAGGGGCTCCCACTGCCCCAGCCGTTCT
GCCACCCGGGCAGCCCAAGTCCGCCGGGCGGCCCTTGACGCCCCCTGCCCTCCGGGGCCAGACGCAAGATCCATCTC
AGACCCCCCAGCCCGAGATCCAGGCTGCCGATCCGCTACTCCGCGCCTACTCGCGCTGCTGCTGGCGGGGC
AAGTCCGAGAGCAGCCGCGGCCCGCGTGTACTACGATGAAGGGGTGCCAGCAGCGACGATGACTCCAGCGGA
GACGAGTCCGACGATGGGACCTCCGATGCCTCCGCTGGTTTCAGCATCGGCGAAATCGCCGCCCGCAAAGCCC
CAGCGCAACTTACTCCGCAACTTTCTCGTGCAAGCCTTCGGGGGCTGCTTCGGTTCGATCTGAGAGTCCCCAGCCC
AAAGCCTCGCGCTCTCTCAAGGTCAAGAAGGTACCCCTGGCGGAGAAGCGCAGACAGATGCGCAAAGAAGCCCTG
GAGAAGCGGGCCCAAGCGCGCAGAGAAGAAACGCAGTAAGCTCATCGACAAACAACCTCCAGGACGAAAAGATG
GGCTACATGTGTACGACCCGCTGCTGCTTCTAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATG
AGGATCCTGCATGTTAATGGGTTTAAATGGAGAGGGCGCGAAGAGGACCCGAGGCTGCAAGGAGCAACAGCGAT
GGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCATG
AGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCGAGAACCAGTTGAGAGTGACTACATCCTGAGTGTGATG
AACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTCCGT
GCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCAGTACTTCTGGACAAGATCGACGTGATC
AAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGTCTGACTTCTGGAATCTTTGAGACC
AAGTTCAGGTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCATGAACGCCGCAAGTGGATC
CAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTTCATCCGGGAGGAC
AACCAGACCAACCGCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATC
TCTGTGATCCTGTTCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCTTGCTGGGAAATCGAAGATTGAGGAC
TACTTTCCAGAATTTGCTCGCTACCTACTCCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACC
CGGGCCAAGTACTTTCATTGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTAC
CCTCAATTCACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTACGCGC
ATGCACCTTCGTGAGTACGAGCTGCTCT**TAAGA**AGGGGAACCCCCAAATTTAATTAAAGCCTTAAGCACAATTAATT
AAAAGTGAAACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCC
CCCGAGTGATTTTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGCGGC
CTACAGAAAAAGGAAAAAGGCCACAAAAGTTCCCTCTCACTTTTCAGTAAAAATAAATAAAACAGCAGCAGCAA
CAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAATCAAAATAAAAA
TTAAATGTGAGCAAAG

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FIGURE 5829

MQALRLRPALMEPGAFFSGARFGLGGYSPPPEEAMPFEFDQPAQRGCSQLLLQVPDLAPGGPGAAGVPGAPPEEPQ
ALRPAKAGSRGGYSPPPEETMPFELDGEFGDDSPPPGLSRVIAQVDGSSQFAAVAASSAVRLTPAANAPPLWVP
GAIGSPSQEAVRPPSNFTGSSPWMEISGPPFEIGSAPAGVDDTPVNMDSPPIALDGPPIKVSGAPDKRERAERPP
VEEEAAEMEGAADAAEGGKVPSPGYGSPAAGAASADTAARAAPAAPADPDGATPEDPDGATAPADPDGAFAD
PDGAAPAAPADPDGAAPDAPADPDGAAPDAPADPDAGAAPEAPAAPAAAETRAAHVAPAAPDAGAPTAPAAS
ATRAAQVRRRAASAAPASGARRKIHLRPPSPEIQAADPPTPRPTRASAWRGKSESSRGRVYDEGVASSDDSSG
DESDDGTSGCLRWFQHRNRNRKPKQRLNRLNFIQAFGGCFGRSESPQPKASRLKVKVPLAEKRRQMRKEAL
EKRAQKRAEKKRSLIDKQLQDEKMGYMCThRLLLGAGESGKSTIVKQMRILHVNGFNNEGGEEDPQAARSNSD
GEKATKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVR
ACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSQDQLLRVLTSGIFETKFQVDKVNFMFDVGGQDERRKWI
QCFNDVTAIIFVVASSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAKSKIED
YFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEFLRISTASGDGRHYCYPHFTCAVDTENIRRVFNDCRDIQR
MHLRQYELL

[illegible]

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FIGURE 5831

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNNEGEGEE
DPQAARSNSDGEKATKVQDIKNNLKEALETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHA
KALWEDEGVRACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSQDLLRCRVLTSGIFETKFQVDKVNFMFDVG
GQDERRKWIQCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEK
VLAGKSKIEDYFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEFRLRISTASGDGRHYCYPHFTCAVDTENIRRV
FNDCRDIIQRMHLRQYELL

[illegible]

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FIGURE 5833

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNGDSEKA
TKVQDIKNNLKEAIEETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVRACYE
RSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTS GIFETKFQVDKVNFMFDVGGQDERRKWIQCFN
DVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAKSKIEDYFPE
FARYTTPEDATPEPGEDPRVTRAKYFIRDEFRLISTASGDGRHYCYPHFTCAVDTENIRRVFNDCRDI IQRMHLR
QYELL

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FIGURE 5834

GGGGTCGGCCGGGTGCTGGGCCGAGGCCGAGGCCGGGGCGGGATCCAGAGCGGGAGCCGGCGCGGGATCTGGGAC
TCGGAGCGGGATCCGGAGCGGGACCCAGGAGCCGGCGCGGGGCCATGCGAGGCGCGGGCCAGGGTGGCGGCCGC
TTCTGCTGCTCGTGCTGCTGGCGGGCGCGGCGCAGGGCGGCCTCTACTTCCGCCGGGGACAGACCTGCTACCGGC
CTCTGCGGGGGACGGGCTGGCTCCGCTGGGGCGCAGCACATAACCCCGGCCTCATGAGTACCTGTCCCCAGCGG
ATCTGCCCAAGAGCTGGGACTGGCGCAATGTGGATGGTGTCAACTATGCCAGCATCACCGGAACCAGCACATCC
CCCAATACTGCGGCTCCTGCTGGGCCACGCCAGCACCAGCGCTATGGCGGATCGGATCAACATCAAGAGGAAGG
GAGCGTGGCCCTCCACCTCCTGTCCGTGCAGAACGTTCATCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGGTA
ATGACCTGTCCGTGTGGGACTACGCCACCCAGCACGGCATCCCTGACGAGACCTGCAACAACCTACCAGGCCAAGG
ACCAGGAGTGTGACAAGTTTAACCAATGTGGGACATGCAATGAATTCAAAGAGTGCCACGCCATCCGGAACCTACA
CCCTCTGGAGGGTGGGAGACTACGGCTCCCTCTCTGGGAGGGAGAAGATGATGGCAGAAATCTATGCAAATGGTC
CCATCAGCTGTGGAATAATGGCAACAGAAAGACTGGCTAACTACACCGGAGGCATCTATGCCGAATACCAGGACA
CCACATATATAAACCATGTCGTTTTCTGTGGCTGGGTGGGGCATCAGTGATGGGACTGAGTACTGGATTGTCCGGA
ATTCATGGGGTGAACCATGGGGCGAGAGAGGCTGGCTGAGGATCGTGACCAGCACCTATAAGGATGGGAAGGGCG
CCAGATACAACCTTGCCATCGAGGAGCACTGTACATTTGGGGACCCCATCGTTTAAGGCCATGTCACTAGAAAGCG
CAGTTTAAGAAAAGGCATGGTGACCCATGACCAGAGGGGATCCTATGGTTATGTGTGCCAGGCTGGCTGGCAGGA
ACTGGGGTGGCTATCAATATTGGATGGCGAGGACAGCGTGGCACTGGCTGCGAGTGTTCCTGAGAGTTGAAAGTG
GGATGACTTATGACACTTGACAGCATGGCTCTGCCTCACAATGATGCAGTCAGCCACCTGGTGAAGAAGTGACC
TGCGACACAGGAAACGATGGGACCTCAGTCTTCTTCAGCAGAGGACTTGATATTTTGTATTGGCAACTGTGGGC
AATAATATGGCATTTAAGAGGTGAAAGAGTTCAGACTTATCACCATTCTATGTCACCTTTAGAATCAAGGGTGGG
GGAGGGAGGGAGGGAGTTGGCAGTTTCAAATCGCCAAGTGATGAATAAAGTATCTGGCTCTGCACGAG

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FIGURE 5835

MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRNVDGVN
YASITRNQHIFQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSVWDYAHQHGIP
DETCNNYQAKDQECDFNQCGTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIMATERLANY
TGGIYAEYQDITYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWLRIVTSTYKDGKGARYNLAIEEHCTFGD
PIV

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FIGURE 5836

CGGGTAGCGCGCTCTGAAAGTTTATGACCGCCGAGCCAACTCCTGGCCGGAGCTGGAGACGCAGCGAGCGATCG
GCCGGCCTCGAACCCCAACAGCTGGAGGGCGAGGCCAGCTGTACCCGGCCCCAGTGCCCTTTCGCGGCCACAAGC
GGCCGTCTCTCTGGTCCGGTGCTCCGGCGCCTGATCTAGGTTTCATGGAGCCGGGGCTGTGGCTCCTTTTCGGGCT
CACAGTGACCTCCGCCGAGGATTCGTGCCTTGCTCCAGTCTGGGGATGCTGGCAGGCGCGGCGTGTCCAGGC
CCCCACTGCAGCCAGATCTGAGGGGGACTGTGAAGAGACTGTGGCTGGCCCTGGCGAGGAGACTGTGGCTGGCC
TGGCGAGGGGACTGTGGCCCCGACAGCACTGCAGGGTCCAAGCCCTGGAAGCCCTGGGCAGGAGCAGGCGGCCGA
GGGGGGCCCTGAGCACCACCGATCCAGGCGCTGCACGTGCTTCACCTACAAGGACAAGGAGTGTGTCTACTATTG
CCACCTGGACATCATTGGATCAACACTCCCGAACAGACGGTGCCCTATGGACTGTCCAACCTACAGAGGAAGCTT
CCGGGGCAAGAGGTCTGCGGGGCCACTTCCAGGGAATCTGCAGCTCTCACATCGGCCACACTTGCCTGCGCTTG
TGTGGGGAGATATGACAAGGCCTGCCTGCACCTTTTGCAACCAACTCTGGACGTCAGCAGTAATTCAAGGACGGC
AGAAAAAACAGACAAAGAAGAGGAAGGAAGGTTGAAGTCAAGGACCAACAAAGCAAGCAGGCTTTAGACCTCCA
CCATCCAAAGCTCATGCCCGCAGTGGACTCGCCCTCGCTCCATCTACCTGCCCCCGCTGCCTCTTTCAGGAAGG
AGCCCTTATAGGAGCAGGCTGCAGCTCCAATTTTCAGCAGGAAATTGGTTTGGAGAGTTTGGCAAGTTGGA
AAGCCACTTACTGGCTTTTGACATGACTTCTCTTGGAGAATAAGTGGACTCCAAGCTAAGCTTTGCAATGTAA
ACACATGTCCATCTTGTAAATAAATGCAAAATGCCCGTGCAGCAGAAGCATGCGACTTTTCATATCCTTGCCTAGA
ATAGGCTGCATGGTGTATGTCAGTGAGGGCCACGAGGCGTCGGCTTTAGACACAGATCATAGCTCTACAGGAGTT
TATGAATTTGAAGCTTATGGGATTTTGGCAGAGAAATTTTCAGCTGTGCTTGATACCCACCAAAAGAATGTATCT
CGAAAGAATGAAGGAAGAAGAAAAAGGATCCTTGATGTTTGTGACAAGAAAATGAGAAAGTTAGTATCTGCAAT
ACAGAGCTTGTTCTCTGTTCACTGACTGACCTCTGTATTCTGTATAGACACCAGGCCGATACACAGTGGAGTTCC
CAGGCCCTTGTTCAGGAAGCCGACTGTAAAGACAGCCCCAGCTCAAGGCTATTAGGTTGAATATTGCTTTTCAT
GAGTAAATGTGGATCTTTGGGAATGGCTTCAAATAAGTCACGAACACAAATCTTTGTAAATTATGTAAATTC
CTGTTTATATAAATTGGCAACAACCTTATACCGTCTGACAGTTCAAATCTCTTTTCAGCTGCGCTCTTCCCACCGA
GCCGAGCTTACTGTGAGTGTGGAGATGTTATCCACCATGTAAAGTCGCCCTGCGCAGGGGAGGGCTGCCCATCTC
CCCAACCCAGTCACAGAGAGATAGGAAACGGCATTGAGTGGGTGTCCAGGGCCCCGTAGAGAGACATTTAAGAT
GGTGTATGACAGAGCATTGGCCTTGACCAATGTTAAATCCTCTGTGTGTATTTTCATAAGTTATTACAGGTATAA
AAGTGATGACCTATCATGAGGAAATGAAAGTGGCTGATTTGCTGGTAGGATTTTGTACAGTTTAGAGAAGCGATT
ATTTATTGTGAAACTGTTCTCCACTCCAACCTCCTTTATGTGGATCTGTTCAAAGTAGTCACTGTATATACGTATA
GAGAGGTAGATAGGTAGGTAGATTTTAAATTGCATTCTGAATACAACTCATACTCCTTAGAGCTTGAATTACAT
TTTTAAATGCATATGTGCTGTTTGGCACCCTGGCAAGATGGTATCAGAGAGAAACCCATCAATTGCTCAAATAC
TCAGAAAGTACTGTCAAAGCCTAATAAAAAACCTAAAGTTTGCTCTG

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FIGURE 5837

MEPGLWLLFGLTVISAAGFVPCSQSGDAGRRGVSQAPTAARSEGDCEETVAGPGEETVAGPGEGTVAPTALQGFS
PGSPGQEQAAEGAPEHHRSRRCTCFTYKDKECVYYCHLDIIWINTPEQTVPYGLSNYRGSFRGKRSAGPLPGNLQ
LSHRPHLRCACVGRYDKACLFCTQTLDVSSNSRTAEKTDKEEGKVEVKDQQSKQALDLHHPKLMPGSGLALAP
STCFRCLFQEGAP

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FIGURE 5838

GGCACGAGGCGGCCGCCGCGGCCATGAGCTACGACCGCGCCATCACCGTCTTCTCGCCCGACGGCCACCTCTTC
CAAGTGGAGTACGCGCAGGAGGCCGTCAAGAAGGGCTCGACCGCGGTTGGTGTTCGAGGAAGAGACATTGTTGTT
CTTGGTGTGGAGAAGAAGTCAGTGGCCAACTGCAGGATGAAAGAACAGTGC GGAAGATCTGTGCTTTGGATGAC
AACGTCTGCATGGCCTTTGCAGGCCTCACCGCCGATGCAAGGATAGTCATCAACAGGGCCCCGGGTGGAGTGCCAG
AGCCACCGGCTGACTGTAGAGGACCCGGTCACTGTGGAGTACATCACCGCTACATCGCCAGTCTGAAGCAGCGT
TATACGCAGAGCAATGGGCGCAGGCCGTTTGGCATTCTCTGCCCTCATCGTGGGTTTCGACTTTGATGGCACTCCT
AGGCTCTATCAGACTGACCCCTCGGGCACATAACCATGCCITGGAAGGCCAATGCCATAGGCCGGGGTGCCAAGTCA
GTGCGCGAGTTCCTGGAGAAGAACTATACTGACGAAGCCATTGAAACAGATGATCTGACCATTAAAGCTGGTGATC
AAGGCACTCCTGGAAGTGGTTCAGTCAGGTGGCAAAAACATTGAACTTGCTGTCATGAGGCGAGATCAATCCCTC
AAGATTTTAAATCCTGAAGAAATTGAGAAGTATGTTGCTGAAATTGAAAAAGAAAAAGAAGAAACGAAAAGAAG
AAACAAAAGAAAGCATCATGATGAATAAAATGTCTTTGCTTGTAAATTTTAAATTCATATCAATCATGGATGAGT
CTCGATGTGTAGGCCTTCCATTCCATTTATTCACACTGAGTGTCTACAATAAACTTCCGTATTTTT

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FIGURE 5839

MSYDRAITVFS PDGHLFQVEYAEAVKKGSTAVGVRGRDIVVLGVKKSVAKLQDERTVRKICALDDNVCMAFAG
LTADARIVINRARVECSHRLTVEDPVTVEYITRYIASLKQRYTQSNRRPFGISALIVGFDFDGTPLRYQTDPS
GTYHAWKANAIGRAKSVREFLEKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLKILNPEEI
EKYVAEIEKEKEENEKKKQKKAS

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FIGURE 5840A

GCAGCCGGAGTATCCACCTCGATGACCACGGGCTGAGCCCCGCGCCGCCACCATGTCCGTGGCCTTCGCGTCTGC
CCGGCCAAGAGGCAAAGGGGAGGTTACGCAGCAAACCATCCAGAAGATGCTGGACGAGAACCACCACCTGATCCA
GTGCATCCTGGAGTACCAGAGCAAGGGCAAGACGGCCGAGTGCACGCAGTACCAGCAGATCCTGCACCGGAACCT
GGTATACCTGGCCACGATCGCAGACTCCAACCAGAACATGCAGTCCCTGCTTCCCTGCCCCGCCCACGCAGAACAT
GAACCTGGGCCCCGAGGCCCTGACTCAGAGCGGCTCCAGCCAGGGCCTGCACTCTCAGGGCAGCCTGAGTGACGC
CATCAGCACGGGCTGCCACCCTCCTCCCTCCTGCAGGGCCAGATTGGCAACGGGCGGAGCCACGTGTCCATGCA
GCAGACGGCGCCTAACACGCTGCCACCACCTCCATGAGCATCTCTGGGCCCCGGCTACAGCCACGCGGGACCCGC
CTCGCAGGGCGTCCCCATGCAGGGGCAAGGCACCATCGGCAACTACGTGTCTCGGACCAACATCAACATGCAGTC
CAACCCAGTCTCCATGATGCAGCAGCAGGCGGCCACGTGCACTACAGCTCGGCGCAGGGCGGCAGCCAGCACTA
CCAGGGCCAGTCGTCCATCGCCATGATGGGGCAGGGCAGCCAGGGGAGCAGCATGATGGGCGAGCGGCCCATGGC
GCCCTACCGGCCCTCCAGCAAGGCTCTTCCAGCAGTACCTGGGCCAGGAGGAGTACTATGGCGAGCAGTACAG
CCACAGCCAGGGCGCCGCGGAGCCCATGGGCCAGCAGTACTACCCCGACGGCCATGGCGATTACGCCTACCAGCA
GTCATCCTACACGGAGCAGAGCTACGACCGGTCTTCGAGGAGTCCACGCAGCACTACTATGAGGGGGGAACTC
CCAGTACAGCCAGCAGCAGGCGGGTACCAGCAGGGTGCCGCGCAGCAGCAGACGTACTCCAGCAGCAGTACCC
CAGCCAGCAGAGCTACCCCGGCAGCAGCAGGGGTACGGGTCTGCCAGGGAGCCCCGTACAGTACCCCGGCTA
CCAGCAAGGCCAAGGCCAGCAGTACGGAAGCTACCGAGCACCGCAGACAGCGCCGTCTGCCAGCAGCAGCGGCC
CTACGGCTATGAACAGGGCCAGTATGGAAATTACCAGCAGTAAAGGACACACATTCTGGCTGGAGCCCTTGTGGT
AGCGTGTTTCATCAGGGGCGGATGGGCTGGCGGCAGCTCTGGTGAATTGTGACATGTTGGTTACCTGTTCCGCC
AGTGCCACGTCTGCATGTGAAGCGTGCTCATTTCATGCTGGGTATGACGCCGAGCGCACACCACTGGCGTGAGAC
AGCGCTTGGTGGTGTGATACTTTGGTGCTGTGTATAGTATTGTATGTGCGGTACACGGAGAGGTATCCTTTTTTT
GTCCCCCGCCCCCTTCTCAATGTTTCTAGCTAGCTTTGGGGGTCAATTTGTTCATCAGAGCATTCTGTGCCAGGG
ACAGGACAGATCTCGAGGACACCACAGTCCACCTGTTCCCGTCAACAGACGTTAGGTCTCATTTTTCTCTCATG
CAGTGTTGTAGTGTGGGTTGTCAACTTTTTCTTTAAGTGGCTACGCCACAGCTGGACACACATGCAGCCCCGAGG
GGCAGCCCTCTCCCTGTGCTCGATGGGGTGGGTGGGAGGGCATCTTCTGTGCGTTGGGTGAGTTTCTGTTACGTA
ACGAAAAGGATAAATCATCTCCACGGGAGAGGCCACAGATGGCCACTTCCAGAGCTTGCCCATGCTGTCTCTC
GCCAATTCGGTTTATCCAAAAGGTACATGTTTTTGTATTAAAAAGTAAACAGGGATCAGTGACTGTATTCCAAA
TAAATATGAATCCCTAAGGGCCGTGGACAAATTGCTTAACCCAGGGCCAGCGGTATTGCTGAAGGAAAGGGGCAG
CTCTCTGGGAAGTGGGCCCCAGAGATTACTCTGGCTTTGACCCTTGTTTAGCTGATGGTCATTTCTGGGATTGG
AATATTTAATAAGCCCCAATTCTAAGTTGATAGGTAATTTTAAATATTCAAACCAATCTTCCCAACAGTTGGCAA
GTTGTTTTATTTATATTATTTCTTCCAGGACCTACTTGCTCAGATCTCCAAGCAAGCATTCTTTTTCTTTAGGG
ATGCTGAAAGTCACATCCAGTTACATTACTGTGTTCTTTCTAATGAAAAGTAAAGGTTTTATATAGAGAACTT
GAGTAATTTTACATTTCTAAGACATTAAATCCCATTTAAATTCTGTGTGAACATTAAAGACAGCACTTTGCAA
AAGTATGGTCAAAGGAAAAAATCCACATTTCAATTAACAAGTAGCATGGACATTTGATCAACCTTTAGTTGGA
ATAATAATATTCATATTGCTATGAATCCTTTTAAAAAATCTTTGGATAAATGCTGACAGATTTCCAAGAACTA
CCAAGAAAATACAAGAGATATCCAATGCTTGATATATGAGGCCTAGTAATAACGATATTTCTCTTTAATTGATGT
TTTGTTTTAAAGTTAAAAGTAATTCTTGGCGTGGTGGTTACGCCTGTAATCCAGCACTTTGGGAGGCCGAAG
CGGGCGGATCACCTGAGGTCGGGAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCCGTCCCTACTAAAAATA
CAAAATTAGCCAGGTATGGTGGTGACATACCTGTAATCCAGCTACTCGGGAACCTGAGGCAGGAGAAATGGCTTGA
ACCCAGGAGACAGAGGTTGTGGTGGGGCAAGATCGCACCATTTGCACCCGAGCCTAGGCAACAAGAGTGAAATTCC
GTCTCAAAAAATAAATAAATAAATAAATAAAGTTAAATTAATTCTTTATCCAGAGTCGGGTGCTTTAGAA
TTTATAAGTCACTTATGTGTTTTGCTTGAATTAATTCTGACAGCCCTATGAGGAAATCTGGAGGCAGGTAACAG
TTCCCATTTTAGAGATGAAGAACTGAGGCACAGATTAAAGGACTTGCCGTGTGTTGAATACCAGTCTGTTCTAGG
ACATTCTCCCTCTCCTAGGAGACGGATGTCACGCACAAATGGGGAGAGAAGTGTTATTTTGTAGGCACTAAGG
GTTTCTAAACCCCTTAACACTGGTAAGGGCTCAAAAATAAACGTATGTGTTTATTCGATACCCGAAATGAGAG
TTCTTAATTGCTAATTGACAAACGCGTTAGCAATTTAGTTAGGGAGTCATCTCCCTTGATTGTGTTCTTTTCT
GTCAATTTTCATAGACCTAATTTGCAAACTCAATCGGGGACTAAAATTTCCCACTGAAAATGTTAAACATTTTAG
ATAACTGTGAAGATAGTTTATTTTATTCCTTGCCAATCTGGGAATATGCCTTTTTTGTGTGTTTGTGTGTTTT
TTAAGTGCTGTATTAATAATACTTTCTGAAAGAAAAGGACACTTACCCCAAACTTCAATCTGAAATGTCTTACA

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FIGURE 5840B

TTAAGAATATCTTGAATGTTGTGTATATATTTTAAAAAGCACTTTGCAAAATAGTTTGTACATTTATTTCTAAT
TTATACATGATTTTTGGTGTTAATATATTTAATGATTAATAACAGAATGTTTATTTAATGTGCTGTCCATTTT
TGTAATATTATGGGGAAAGTGATGCCAGCAGTTCCTTTTCATTATTCTATCTTCTGTCATATGAATGTTGAGCA
AGCTTAGGCCAACATGAATTGTTGTGAAGTGTGGTTGATGGTGTCTTGTTTTTTCTGACTACTTCTATGGAAG
GCCAGTGAAGAAGCAAAGGAAGACATGAAAATTGACGCTCATTCTTCTTCTATTGTTCCCTGACATCCAGCAA
TTGTGAATTTGAAAAATGATGGCCAGTTTTTCAGAAGTGCTGACAAATTCATATTGGTATGCAAAGCTCATCACC
CATTAGGTTTGTGTTGAATCAACAGTACTCAGCATATTTAAACAGTACATCAGAACTCATGCCAACAGTCTTT
ATGATGGGATTAAGGTGGACAAGATCTCCTAAGATCTGTGAATGGGATTAAGGTGGACAAGATCTCCTAAGATCT
GAAAAGAAACCTTAATACGCTCATATGGTTGGAGTGTTAAGTGAACCTCTGATTTTGTGAGGGTTTTTCTACGTG
TAGGCGTGAATAGGGGGCACCCTTCAAACTGTACAAAGAAGACGACTGTTTTCCATTTCATTTAAACATTTT
TAGCCACTTCATTTCTATTTATTGAACAGGTCAAATTTGTCTTGTTATTTGTGAGTACAGTACATTTAAAAACA
TCCTTATCGGTTATTTTTTTTTCAGTCGGAGTTTGACGTATAAATTGTTTATGCTTTTGGTGAATCTCTTAATA
AACTGGTTCTTCAAAAATC

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FIGURE 5841

MSVAFASARPRGKEVTQQTIQKMLDENHHLIQCILEYQSKGKTAECTQYQQILHRNLVYLATIADSNQNMQSLL
PAPPTQNMNLGPGALTQSGSSQGLHSQGSLSDAISTGLPPSSLLQGQIGNGPSHVSMQQTAPNTLPTTSMSISGP
GYSHAGPASQGVPMQGGGTIGNYVSRNINMQSNPVSMMQQAATSHYSSAQGGSQHYQGQSSIAMMGQGSQGS
MMGQRPMAPYRPSQQGSSQQYLQEEYYGEQYSHSQGAAEPMGQQYYPDGHGDYAYQQSSYTEQSYDRSFEESTQ
HYYEGGNSQYSQQQAGYQQGAAQQQTYSQQQYPSQQSYPGQQQGYGSAQGAPSQYPGYQQGQGGQQYGSYRAPQTA
PSAQQQRPHYGYEQGQYGNYQQ

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FIGURE 5842

GGGGCCATGGCACCTGCAAGGTGTTTCTCAGCAAGATTGAGGACCGTGTTTCAGGGCGTGGGGCATTGGGCTTTG
TCCACATGGGCTGGCCTGAAGCCCAGCCGGCTACTGCCACAGCGGGCTTCTCCCAGGCTGCTCTCGGTGGCCGT
GCGGACCTCGCCAAGCATCAGGAACTCCCAGGGAAGAAGCTGCTCTCTGAGAAAAAGTGAAAAGGTACTTTGTG
GACTATCGGAGAGTGCTTGTCTGTGGAGGAAACGGAGGCGCTGGGGCAAGCTGCTTCCACAGTGAGCCCCGCAAG
GAGTTTGGAGGCCCTGATGGAGGGGACGGAGGCAACGGTGGACACGTCATTCTGAGAGTTGACCAGCAAGTCAAG
TCCCTGTCTGCTGCTCTGTCTGCGGTACCAGGGTTTCAGTGGAGAAGATGGAGGGAGTAAAACTGCTTCGGGCGC
AGTGGGCGCGTCTCTACATCCGGGTCCCCGTGGGCACGCTGGTGAAGGAGGGAGGCAGAGTTGTGGCCGACCTG
TCTTGGTGGGAGATGAGTACATTGCCGCGCTGGGCGGGGCAGGAGGGAAAGGCAACCGCTTCTTCTGCGCAAC
AACAACCGTGCCCTGTGACCTGTACCCCTGGACAGCCAGGACAGCAGCGAGTTCTCCACCTGGAGCTCAAGACG
GTGGCCCACGCCGAATGGTGGGATTCCCCAACGCCGGGAAGTCTCTACTGCTCCGGGCCATTTCAAACGCCAGA
CCCGCCGTGGCTTCTTACCCGTTACCAACCTGAAGCCCCACGTCGGGATCGTCCACTACGAAGGCCACCTACAA
ATAGCAGTGGCCGACATCCCCGGCATCATACGAGGCGCCACCAGAACAGGGGTCTGGGGTCCGCTTCTCTCAGG
CACATCGAGCGTGCCGCTTTCTCTTGTTCGTGGTGGATCTTTCTCAGCCTGAGCCGTGGACTCAAGTTGACGAT
TAAAAATATGAAGTGGAGATGTATGAAAAGGGCTGTCTGCGAGGCCCCACGCAATCGTCGCAAACAAGATTGAC
CTCCCTGAAGCCCAAGCCAATCTGTCCAGCTCCGGGATCACTTGGGACAGGAGGTATCGTGCTGTGCGCGTTG
ACCGGCGAGAACCTGGAGCAGCTGCTGTTGCACCTGAAGGTGCTGTATGACGCCTACGCGGAGGCCGAGCTGGGC
CAGGGCCGCCAGCCCTCAGGTGGTTAGCCACGCCAGAGCGGGTTCGCTCTGGGCCTCTGTCTGAGCAAACCTGG
GTGTGAATTTCGGTGGTTTTGAATGCATAAAGTGCCTTGTGGACACGGGGGAGTTGTGGTGCTTCTGGGTCTCTGG
GCCCCGCTGCTGGCCTGAGATGCCCTCATGTTGGGAAGCATTCCGTGCCCCCTACCCCGCTGCCCTCCGTATT
TCTTGACCTGTGAGCCTGCACCGACTGATGAGCCAGTTGCTCATTGTGCTGATTAAACCCCTAATAAGGGGT
TGGGGTGCCATAACGGGGTGGCCCTGCCGCTGACTCAGGTCTCCGCCATGCACGCGTGGACTCTCGGATGAGCT
CAGCAGAACCGCACAGCCAGAGCCCCAGGTGAGAAGTGACAGCAGGGTTCTCAGCACAGTGCCCGTCTGCTTC
CATGGCTTGCTACGGAGAGAGACCTCTGGATCCACACTGGGGCTGCGTCTGGCCCGTTGTCCAGCAGCCCTGCGG
TACCGCAAGCCCAGGCACCAAGTGTCTCGGGGGGCTCAGTCTGCGCAAGGGGTGGGGCCGAGGATGCAAGTCCA
GGCAGAGCGGCGCAGGCAGCTGTGAGCTTTTCTCCATCAGCCGTCTGAGAAGAGCAGTGAGGCCAGCTGCTTCT
GTCCTTCAGAACACTTCTCTGTGCTCAGTGGGAGCCAGGAAGCCTCAGGCTTCACGACTGAATGCACCCAATATC
CGACCTGGCTGCGTGTCTTCTGGCTGGGCTGCCGTGTGCACAGCAAGTTAACTAGAGGGGCTGTGGGCCATGGAAC
TGTCAGCGTTATTCTCAGAAGGCGGCCGTGGCATGGGCAGGGTATAGTGAGGAGTGGGAAGGAGACGTGTGCCTGG
TAATATGGGGCGGAATTTCCACTCAGCTCCATTTGCTGGGGATTTAAAGAGAACCCTTGTGCTACGCCAGGCAGT
TACCGAGCCGAAGGGAGATGATGGGCCTTCGCCCTCAGTGGGATGGCAGCTGAGGGGGCCCTGCATTGACCGT
CGAGACTGCAGCAGCGCCTTTCTGTCTGTGGTTAAGTCTTTGCAGTCAAGTACTGATGCATCCAAGCCAGGCC
CATGCCTGGTGTCTCCCTGACTGCAGAGGAGCCCCAGGGCAAGGACAGCTCAGCTGCTGGCAGCCTGCCTGGCCC
ATAGACATCCCCAAGTAGTCTCAGGCCTCTGACATGTCCCTGAGGGGCCCCTAAGAAAGAAAGTGGAGGGGACA
CTCCAGAGGCTGTGCTGGGAGGATCATGTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGTGATTGCACCACTGC
ACTCCAGCCTGAGTGACAGAGCGAGACCCTGTCTCAAAAAACAAACAAACAAACAAACAAACAGAACATTCTG
GGCAGGTTGGCTCATGCCTGTAGTCCCAGCACTTTGGGAGGCGGAGGCTGGTGGATCACAAGGTGAGGAGATTGA
GACCATCTGGCTAACACAGTGAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCGGTC
ACCTGTAGTCCCAGCTACTCGGGAGGCTGAAGCAGGAGAATGGCGTGAACTTGGGAGGCGGAGCTTGCAGTGAGC
CGAGATCACACCACTGCACTCCAGCCTGAGCGACAGAGCAAGACTCCATCTC

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FIGURE 5843

MAPARCF SARLRTVFQGVGHWALSTWAGLKPSRLLPQRASPRLLSVGRADLAKHQELPGKKLLSEKKLKRYFVDY
RRVLVCGGNGGAGASCFHSEPRKEFGGPDGGDGGNGGHVILRVDQQVKSLSVLSRYQGFSGEDGGSKNCFGRSG
AVLYIRVPVGTILVKEGGRVADLSCVGDEYIAALGGAGGKGNRFFLANNNRAPVTCTPGQPGQQRVLHLELKTVA
HAGMVGFNPAGKSSLLRAISNARPAVASYPFTTLKPHVGIVHYEGHLQIAVADIPGIIRGAHQNRGLGSAFLRHI
ERCRFLLFVVDLSQPEPWTQVDDLKYELEMYEKGLSARPHAIVANKIDLPEAQANLSQLRDHLGQEVIVLSALTG
ENLEQLLLHLKVLYDAYAEAELGQGRQPLRW

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FIGURE 5844

GCGAGCCCGGACGGCGCCTCTCGAACGAGTGTGGGCGCGAGGCAGGATGACGACCTCAGGCGCGCTCTTTCCAAG
CCTGGTGCCAGGCTCTCGGGGCGCCTCCAACAAGTACTTGGTGGAGTTTCGGGCGGGAAAGATGTCCCTGAAGGG
GACCACCGTGACTCCGGATAAGCGGAAAGGGCTGGTGTACATTGAGCAGACGGACGACTCGCTTATTCACTTCTG
CTGGAAGGACAGGACGTCCGGGAACGTGGAAGACGACTTGATCATCTTCCCTGACGACTGTGAGTTCAAGCGGGT
GCCGAGTGCCCCAGCGGGAGGGTCTACGTGCTGAAGTTCAAGGCAGGGTCCAAGCGGCTTTTCTTCTGGATGCA
GGAACCCAAGACAGACCAGGATGAGGAGCATTGCCGGAAGTCAACGAGTATCTGAACAACCCCCGATGCCTGG
GGCACTGGGGGCCAGCGGAACGAGCGGCCACGAACCTCTCTGCGCTAGGCGGTGAGGGTGGCCTGCAGAGCCTGCT
GGGAAACATGAGCCACAGCCAGCTCATGCAGCTCATCGGACCAGCCGGCCTCGGAGGACTGGGTGGGCTGGGGGC
CCTGACTGGACCTGGCCTGGCCAGCTTACTGGGGAGCAGTGGGCCTCCAGGGAGCAGCTCCTCCTCCAGCTCCCG
GAGCCAGTCGGCAGCGGTACCCCCGTATCCACCACCTCTCCACCCGTGCCACCCCAGCCCCTTCTGCTCCAGC
AGCTGCCTCAGCAACTAGCCCCGAGCCCCGCGCCAGTTCCGGGAATGGAGCCAGCACAGCAGCCAGCCGACCCA
GCCCCATCCAGCTGAGCGACCTCCAGAGCATCCTGGCCACGATGAACGTACCAGCCGGGCCAGCAGGCGGCCAGCA
AGTGGACCTGGCCAGTGTGCTGACGCCGAGATAATGGCTCCCATCCTCGCCAACGCGGATGTCCAGGAGCGCCT
GCTTCCCTACTTGCCATCTGGGGAGTCGCTGCCGCAGACC GCGGATGAGATCCAGAATACCTGACCTCGCCCCA
GTTCCAGCAGGCCCTGGGCATGTTTCAGCGCAGCCTTGGCCTCGGGGCAGCTGGGCCCCCTCATGTGCCAGTTCGG
TCTGCCTGCAGAGGCTGTGGAGGCCGCCAACAAGGGCGATGTGGAAGCGTTTGCCAAAGCCATGCAGAACACGC
CAAGCCCCGAGCAGAAAGAGGGCGACACGAAGGACAAGAAGGACGAAGAGGAGGACATGAGCTGGACTTGAGCCAC
GCGCCGTCTCCGAGGAAGTGGGCGCTTGCAGTGCGTTGCACACCCTCACCTCCCACCCACTGATTATTAATAAA
GTCTTTTCCTTTACCTGCAAAAAA

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FIGURE 5845

MTTSGALFPSLVPGSRGASNKYLVEFRAGKMSLKGTTPDKRKGLVYIQQTDDSLIHFCWKDRITSGNVEDDLII
FPDDCEFKRVFPQCPSGRVYVLKFKAGSKRLFFWMQEPKTDQDEEHCRKVNEYLNPPMPGALGASGTSGHELSAL
GGEGGLQSLLGNMHSQMLQLIGPAGLGGLGGLGALTGPGLASLLGSSGPPGSSSSSSSRQSAAVTPSSTTSST
RATPAPSAPAAASATSPSPAPSSGNGASTAASPTQPIQLSDLQSILATMNVFAGPAGGQQVDLASVLTPEIMAPI
LANADVQERLLPYLPSTGESLPQTADDEIQNTLTSPQFQQALGMFSAALASGQLGPLMCQFGLPAEAVEAANKGDVE
AFAKAMQNNAKPEQKEGDTKDKKDEEEDMSLD

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FIGURE 5846A

ATGGCGAAGCGGCTCTGCGCGGGGAGCGCACTGTGTGTTTCGCGGCCCCCGGGGCCCCGCGCGCTGCTGCTGGTC
GGGCTGGCGCTGCTGGGCGCGGCGCGGGGAGGAGGCGGGCGGCTTCAGCCTGCACCCGCCCTACTTC
AACCTGGCCGAGGGCGCCCGCATCGCCGCTCCGCGACCTGCGGAGAGGAGGCCCCGCGCGCGGCTCCCCGCGC
CCCACCGAGGACCTTTACTGCAAGCTGGTAGGGGGCCCCGTGGCCGCGCGGACCCCAACCAGACCATCCGGGGC
CAGTACTGTGACATCTGCACGGCTGCCAACAGCAACAAGGCACACCCCGCGAGCAATGCCATCGATGGCACGGAG
CGCTGGTGGCAGAGTCCACCGCTGTCCCGCGGCTGGAGTACAACGAGGTCAACGTACCCTGGACCTGGGCCAG
GTCTTCCACGTGGCCTACGTCTCATCAAGTTTGCCAACTCACCCCGCGCGGACCTCTGGGTGCTGGAGCGGTCC
ATGGACTTCGGCCGCACCTACCAGCCCTGGCAGTTCTTTGCTCTCTCCAAGAGGGACTGTCTGGAGCGGTTCTGGG
CCACAGACGCTGGAGCGCATCACACGGGACGACGCGGCCATCTGCACCACCGAGTACTACGCATCGTGCCCCTG
GAGAACGGAGAGATCGTGGTGTCCCTGGTGAACGGACGTCCGGGCGCCATGAATTTCTCTACTCGCCGCTGCTA
CGTGAGTTACCAAGGCCACCAACGTCCGCTGCGCTTCTGCGTACCAACACGCTGCTGGGCCATCTCATGGGG
AAGGCGCTGCGGGACCCACGGTCACCCGCCGCTATTATTACAGCATCAAGGATATCAGCATCGGAGGCCGCTGT
GTCTGCCACGGCCACGCGGATGCCTGCGATGCCAAGACCCACGGACCCGTTAGGCTGCAGTGCACCTGCCAG
CACAACACCTGCGGGGGCACCTGCGACCGCTGCTGCCCCGCTTCAATCAGCAGCCGTGAAGCCTGCGACTGCC
AACAGTGCCAACGAGTGCCAGTCTGTAAGTGTACGCGCATGCCACCGACTGTTACTACGACCTGAGGTGGAC
CGGCGCCGCGCCAGCCAGAGCCTGGATGGCACCTATCAGGTGGGGGTGTCTGTATCGACTGCCAGCACACACC
ACCGGCGTCAACTGTGAGCGCTGCTGCCCCGCTTCTACCGCTCTCCCAACCACCTCTCGACTCGCCCCACGTC
TGCCGCGCTGCAACTGCGAGTCCGACTTCACGGATGGCACCTGCGAGGACCTGACGGGTGATGTACTGCCGG
CCCAACTTCTCTGGGAGCGGTGTGACGTGTGTGCCGAGGGCTTCACGGGCTTCCCAAGCTGCTACCCGACGCCC
TCGTCTTCCAATGACACCAGGGAGCAGGTGCTGCCAGCGGCCAGATTGTGAATTGTGACTGCAGCGCGGCAGGG
ACCCAGGGCAACGCCTGCCGGAAGGACCCAAGGGTGGGACGCTGTCTGTGCAAACCAACTTCCAAGGCACCCAT
TGTGAGCTCTGCGCGCCAGGGTTCTACGGCCCCGGCTGCCAGCCCTGCCAGTGTTCAGCCCTGGAGTGGCCGAT
GACCGCTGTGACCTGACACAGGCCAGTGCAGGTGCCAGTGGGCTTCAGGGGGCCACATGTGATCGCTGTGCC
CCCGGCTACTTTCACTTCCCTCTCTGCCAGTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCCGAGGGCTGCGAT
GAGGCCGCGCGCTGCTATGCCAGCCTGAGTTTGTGACCTCATTTGTGACCGGTGCCGCCCTGGCTACCATGGT
TTCCCCAACTGCCAAGCATGCACCTGCGACCCCTCGGGGAGCCCTGGACCAGCTCTGTGGGGCGGGAGGTTTGTGC
CGCTGCCGCCCCGCTACACAGGCACTGCCTGCCAGGAATGCAGCCCCGCTTTACGGCTTCCCCAGCTGTGTC
CCCTGCCACTGTCTGCTGAAGGCTCCCTGCACGCAGCCTGTGACCCCCGGAGTGGGCAGTGCAGCTGCCGCCCC
CGTGTGACGGGGCTGCGGTGTGACACATGTGTGCCCGGTGCCACAACTTCCCCTACTGCGAAGCTGGCTCTTGC
CACCTGCGGCTGTGGCCCCAGTGGATCCTGCCCTTCTGAGGCACAGGTTCCCTGTATGTGCCGGGCTCACGTG
GAGGGGCCGAGCTGTGACCGCTGCCAAACCTGGGTTCTGGGGACTGAGCCCCAGCAACCCCGAGGGCTGTACCCGC
TGCAGCTGCGACCTCAGGGGCACACTGGGTGGAGTTGTGAGTGCCAGCCGGGCACCGGCCAGTGCTTCTGCAAG
CCCCACGTGTGCGGCCAGGCCTGCGCGTCTGCAAGGATGGCTTCTTTGGAAGTGGATCAGGCTGACTATTTTGGC
TGCCGCGAGCTGCCGGTGTGACATTGCGGTGCACTGGGCCAGAGCTGTGAACCGAGGACGGGCGTCTGCCGGTGC
CGCCCCAACACCCAGGGCCCCACCTGCAGCGAGCCTGCGAGGGACCACTACCTCCCGGACCTGCACCACCTGCGC
CTGGAGCTGGAGGAGGCTGCCACACCTGAGGGTCACGCCGTGCGCTTTGGCTTCAACCCCTCGAGTTCGAGAAC
TTCAGCTGGAGGGGCTACGCGCAGATGGCACCTGTCCAGCCCAGGATCGTGCCAGGCTGAACCTGACCTCCCCT
GACCTTTTCTGGCTCGTCTTCCGATACGTCAACCGGGGGGCCATGAGTGTGAGCGGGCGGGTCTCTGTGCGAGAG
GAGGGCAGGTGCGCCACCTGCGCCAACTGCACAGCACAGAGTCAGCCCGTGGCCTTCCCACCCAGCACGGAGCCT
GCCCTTCATACCGTGCACCCAGAGGGCTTCGGAGAGCCCTTTGTGCTGAACCTGGCACCTGGGCCCTGCGTGTG
GAGGCCGAAGGGGTGCTCCTGGACTACGTGGTTCTGCTGCCTAGCGCATACTACGAGGCGGGCTCCTGCGAGCTG
CGGGTGACTGAGGCTGCACATACCGTCCCTCTGCCAGCAGTCTGGCGACAACCTGCTCTCTACACACACCTC
CCCCTGGATGGCTTCCCCTCGGCGCGCGGGCTGGAGGCCCTGTGTGCCAGGACAACAGCCTGCCCCGGCCCTGC
CCCACGGAGCAGCTCAGCCCGTGCACCCGCCACTGATCACTGCACGGGCAGTGTGTTGGACGTCCAGCTTCAA
GTGGCAGTGCCACAGCCAGGCCGCTATGCCCTAGTGGTGGAGTACGCCAATGAGGATGCCCGCCAGGAGGTGGGC
GTGGCCGTGCACACCCACAGCGGGCCCCCAGCAGGGGCTGCTCTCCCTGCACCCCTGCCTGTACAGCACCCCTG
TGCCGGGGCACTGCCCCGGATACCCAGGACCCTGGCTGTCTTCCACCTGGACTCGGAGGCCAGCGTGAGGCTC
ACAGCCGAACAGGCACGCTTCTTCTGACGGGGTCACTCTGGTGCCCATGAGGAGTTACGCCCGGAGTTCGTG

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FIGURE 5846B

GAGCCCCGGGTGAGCTGCATCAGCAGCCACGGCGCCTTTGGCCCCAACAGTGCCGCGCTGTCTGCCCTCGCGCTTC
CCAAAGCCGCCCCAGCCCATCATCTCAGGGACTGCCAGGTGATCCCGCTGCCGCCCGGCCTCCCGCTGACCCAC
GCGCAGGATCTCACTCCAGCCATGTCCCCAGCTGGACCCCGACCTCGGCCCCCCACCGCTGTGGACCTGATGCA
GAGCCCACCTGCTGCGTGAGCCCCAGGCCACCGTGGTCTTACCACCCATGTGCCACGCTGGGCCGCTATGCC
TTCTGTGTGACGGCTACCAGCCAGCCCACCCACCTTCCCCGTGGAAGTCTCATCAACGCCGGCCGCGTGTGG
CAGGGCCACGCCAACGCCAGCTTCTGTCCACATGGCTACGGCTGCCGCACCCTGGTGGTGTGTGAGGGCCAGGCC
CTGCTGGACGTGACCCACAGCGAGCTCACTGTGACCGTGCGTGTGCCAAGGGCCGCTGGCTCTGGCTGGATTAT
GTACTCGTGGTCCCTGAGAACGTCTACAGCTTTGGCTACCTCCGGGAGGAGCCCTGGATAAATCCTATGACTTC
ATCAGCCACTGCGCAGCCCAGGGCTACCACATCAGCCCCAGCAGCTCATCCCTGTTCTGCCGAAACGCTGCTGCT
TCCCTCTCCCTCTTCTATAACAACGGAGCCCGTCCATGTGGCTGCCACGAAGTAGGTGCTACAGGCCCCACGTGT
GAGCCCTTCGGGGGCCAGTGTCCCTGCCATGCCATGTCAATTGGCCGTGACTGCTCCCGCTGTGCCACCGGATAC
TGGGGCTTCCCCAACTGCAGGCCCTGTGACTGCGGTGCCCGCCTCTGTGACGAGCTCACGGGCCAGTGCATCTGC
CCGCCACGCACCATCCCGCCGACTGCCTGCTGTGCCAGCCCCAGACCTTTGGCTGCCACCCCTTGGTCTGGCTGT
GAGGAGTGTAACTGCTCAGGGCCCGGCATCCAGGAGCTCAGACCCCTACCTGTGACACAGACAGCGGCCAGTGC
AAGTGCAGACCCAACGTGACTGGGCGCCGCTGTGATACCTGCTCTCCGGGCTTCCATGGCTACCCCGCTGCCGC
CCCTGTGACTGTACAGAGGCGGGCACTGCGCCTGGCGTGTGTGACCCCTCACAGGGCAGTGTACTGTAAGGAG
AACGTGCAGGGCCCCAAATGTGACCAAGTGCAGCCTTGGGACCTTCTCACTGGATGTGCCAACCCTAAAGGTTGC
ACCCGCTGCTTCTGCTTTGGGGCCACGGAGCGCTGCCGGAGCTCGTCTACACCCGCCAGGAGTTCGTGGATATG
GAGGGATGGGTGCTGCTGAGCACTGACCGGCAGGTGGTGCCCCACGAGCGGCAGCCAGGGACGGAGATGCTCCGT
GCAGACCTGCGGCACGTGCCTGAGGCTGTGCCCGAGGCTTTCCCCGAGCTGTACTGGCAGGCCCCACCTCTAC
CTGGGGGACCGGGTGTCTATCCTACGGTGGGACCTCCGTTATGAACTGCACTCAGAGACCCAGCGGGGAGATGTC
TTTGTCCCCATGGAGAGCAGGCCGGATGTGGTGTGTCAGGGCAACCAGATGAGCATCACATTCTGGAGCCGGCA
TACCCACGCCTGGCCACGTTACCGTGGGCAGCTGCAGCTGGTGGAGGGGAACCTCCGGCATAAGGAGACGCGC
AACACTGTGTCCCGCAGGAGCTCATGATGGTGTGTCAGCCTGGAGCAGCTGCAGATCCGTGCCCTCTTCTCA
CAGATCTCTCGGCTGTCTTCTGCGCAGGGTGGCACTGGAGGTGGCCAGCCAGCAGGCCAGGGGGCCCTGGCC
AGCAATGTGAGCTGTGCCTGTGCCCGCCAGCTACCGGGGGGACTCATGCCAGGAATGTGCCCCCGGCTTCTAT
CGGGACGTCAAAGGTCTCTTCTGGGCCGATGTGTCCCTTGTGAGTGCATGGCACTCAGACCGCTGCCTCCCT
GGCTCTGGCGTCTGTGTGGACTGCCAGCACAAACCCGAAGGGGCCACTGTGAGCGCTGCCAGGCTGGCTTCGTG
AGCAGCAGGGACGACCCACGCCCCCTGTGTGAGCTGCCCTTGCCCCCTCTCAGTGCCTTCCAACAACTTCGCC
GAGGGCTGTGCTGCGAGGCGGCGCACCCAGTGCCTCTGCAAACTGGTTATGAGGTGCCTCCTGCGAGCGG
TGTGCGCCCGGATTCTTTGGGAACCCACTGGTGTGTCAGCTCCTGCCAGCCATGCGACTGCAGCGGCAACGGT
GACCCCAACTTGCTCTTACGCGACTGCGACCCCTGACGGGCGCTGCCGTGGCTGCTGCGCCACCACTGGG
CCCCGTGCGAGATCTGTGCCCCCGGCTTCTACGGCAACGCCCTGCTGCCCGGCACTGCACCCGGTGCAGTGT
ACCCCATGTGGGACAGAGGCTGCGACCCCAACAGCGGGCACTGCCTGTGCAAGGCGGGCGTGACTGGGCGGCGC
TGTGACCGCTGCCAGGAGGGACATTTTGGTTTCGATGGCTGCGGGGGCTGCCGCCCGTGTGCTTGTGGACCGGCC
GCCGAGGGCTCCGAGTGCCACCCCAAGAGCGGACAGTGCCACTGCCGACCAGGGACCATGGGACCCAGTGCCGC
GAGTGTGCCCTGGCTACTGGGGGCTCCCTGAGCAGGGCTGCAGGCGCTGCCAGTGCCCTGGGGGCGCTGTGAC
CCTCACACGGGCGCTGCAACTGCCCCCGGGGCTCAGCGGGGAGCGCTGCGACACCTGCAGCCAGCAGCATCAG
GTGCTGTTCAGGCGGGCTGTGGGCCACAGCATCCACTGTGAAGGTTGTGTGACCACTGTGTGGTCTGTCTCC
TGGATGACCTGGAACGGGCCGGCGCCCTCTCCCCGCCATTACGAGCAACTGCGTGGCATCAATGCCAGCTCCA
TGGCTTGGGCCCGTCTGCACAGGCTGAACGCCTCCATCGCTGACCTGCAGAGCCAGCTCCGGAGCCCCCTGGGCC
CCCGCATGAGACGGCACAGCAGCTGGAGGTGCTGGAGCAGCAGAGCACAAAGCTCGGGCAGGACGCACGGCGGC
TAGGCGGCCAGGCCGTGGGGACCCGAGACCAGGCGAGCCAATTGCTGGCCGGCACCGAGGCCACACTGGGCCATG
CGAAGACGCTGTTGGCGGCCATCCGGGCTGTGGACCGCACCTGAGCGAGCTCATGTCCCAGACGGGCCACCTGG
GGCTGGCCAATGCCTCGGCTCCATCAGGTGAGCAGCTGCTCCGGACACTGGCCGAGGTGGAGCGGCTGCTCTGGG
AGATGCGGGCCCCGGGACCTGGGGGCCCCGAGGACGAGCTGAGGCTGAGTTGGCTGCAGCACAGAGATTGCTGG
CCCGGTGTCAGGAGCAGCTGAGCAGCCTCTGGGAGGAGAACCAGGCACTGGCCACAAACCCGCGACCGGCTGG
CCCAGCACGAGGCGGCGCTCATGGACCTGCGAGAGGCTTTGAACCGGGCAGTGGACGCCACACGGGAGGCCAGG

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FIGURE 5846C

AGCTCAACAGCCGCAACCAGGAGCGCCTGGAGGAAGCCCTGCAAAGGAAGCAGGAGCTGTCCCGGGACAATGCCA
CCCTGCAGGCCACTCTGCATGCGGCTAGGGACACCTGGCCAGCGTCTTCAGATTGCTGCACAGCCTGGACCAGG
CTAAGGAGGAGCTGGAGCGCCTCGCCGCCAGCCTGGATGGGGCTCGGACCCCACTGCTGCAGAGGATGCAGACCT
TCTCCCCGGCGGGCAGCAAGCTGCGTCTAGTGGAGGCCCGCAGGCCCCACGCACAGCAGCTGGGCCAGCTGGCAC
TCAATCTGTCCAGCATCATCTGGACGTCAACCAGGACCGCCTCAGCCAGAGGGCCATCGAGGCCTCCAACGCCT
ACAGCCGCATCTGCAGGCCGTGCAGGCTGCCGAGGATGCTGCTGGCCAGGCCCTGCAGCAGGCGGACCACACGT
GGGCGACGGTGGTGCAGGCGCTGGTGGACCGAGCCAGCAGCTCCTGGCCAACAGCACTGCACTAGAAGAGG
CCATGCTCCAGGAACAGCAGAGGCTGGGCCTTGTGTGGGCTGCCCTCCAGGGTGCCAGGACCCAGCTCCGAGATG
TCCGGGCCAAGAAGGACCAGCTGGAGGCGCACATCCAGGCGGCGCAGGCCATGCTTGCCATGGACACAGACGAGA
CAAGCAAGAAGATCGCACATGCCAAGGCTGTGGCTGCTGAAGCCCAGGACACCGCCACCCGTGTGCAGTCCAGC
TGCAGGCCATGCAGGAGAATGTGGAGCGGTGGCAGGCCCAGTACGAGGGCCTGCGGGGCCAGGACCTGGGCCAGG
CAGTGCTTGACGAGGCCACTCAGTGTCACCCCTGGAGAAGACGCTGCCCCAGCTGCTGGCCAAGCTGAGCATCC
TGGAGAACCCTGGGGTGCACAACGCCAGCCTGGCCCTGTCCGCCAGCATTGGCCGCGTGCGAGAGCTCATTGCCC
AGGCCCCGGGGGCTGCCAGTAAGGTCAAGGTGCCATGAAGTTCAACGGGCGCTCAGGGGTGCAGCTGCGCACCC
CACGGGATCTTGCCGACCTTGCTGCCTACACTGCCCTCAAGTTCTACCTGCAGGGCCCAGAGCCTGAGCCTGGGC
AGGGTACCGAGGATCGCTTTGTGATGTACATGGGACGCCGCCAGGCCACTGGGGACTACATGGGTGTGTCTCTGC
GTGACAAGAAGGTGCACTGGGTGTATCAGCTGGGTGAGGCGGGCCCTGCAGTCTTAAGCATCGATGAGGACATTG
GGGAGCAGTTCGCAGCTGTGAGCCTGGACAGGACTCTCCAGTTTGCCACATGTCCGTACAGTGGAGAGACAGA
TGATCCAGGAACCAAGGGTGACACGGTGGCCCCCTGGGGCAGAGGGGCTGCTCAACCTGCGGCCAGACGACTTCG
TCTTCTACGTCGGGGGGTACCCAGTACCTTCACGCCCCCTCCCCTGCTTCGCTTCCCCGGCTACCGGGGCTGCA
TCGAGATGGACACGCTGAATGAGGAGGTGGTCAGCCTCTACAACCTTCGAGAGGACCTTCAGCTGGACACGGCTG
TGGACAGGCCTTGTCGCCGCTCCAAGTCGACCGGGGACCCGTGGCTCACGGACGGCTCCTACCTGGACGGCACCG
GCTTCGCCCCGATCAGCTTCGACAGTCAGATCAGCACCAACAAGCGCTTCGAGCAGGAGCTGCGGCTCGTGTCTT
ACAGCGGGGTGCTCTTCTTCTGAAGCAGCAGAGCCAGTTCTGTGCTTGGCCGTGCAAGAAGGCAGCCTCGTGC
TGTTGTATGACTTTGGGGCTGGCCTGAAAAAGGCCGTCCCCTGCAGCCCCACCGCCCCTGACCTCGGCCAGCA
AGGCGATCCAGGTGTTCTGTGCTGGGGGCGAGCCGCAAGCGTGTGCTGGTGCGTGTGGAGCGGGCCACGGTGTACA
GCGTGGAGCAGGACAATGATCTGGAGCTGGCCGACGCCCTACTACCTGGGGGGCGTGCCGCCCCAGCAGTGCCTCC
CGAGCCTGCGACGGCTCTTCCCCACCGGAGGCTCAGTCCGTGGCTGCGTCAAAGGCATCAAGGCCCTGGGCAAGT
ATGTGGACCTCAAGCGGTGAACACGACAGGCGTGAGCGCCGGCTGCACCGCCGACCTGCTGGTGGGGCGCGCCA
TGACTTTCCATGGCCACGGCTTCCTTCGCCTGGCGCTCTCGAACGTGGCACCGCTCACTGGCAACGTCTACTCCG
GCTTCGGCTTCCACAGCGCCAGGACAGTGCCCTGCTCTACTACCGGGCGTCCCCGGATGGGCTATGCCAGGTGT
CCCTGCAGCAGGGCCGTGTGAGCCTACAGCTCCTGAGGACTGAAGTGAAGAACTCAAGCGGGCTTCGCCGATGGTG
CCCCCATTACGTGCGCTTCTACAGCAATGCCACGGGAGTCTGGCTGTATGTGATGACAGCTCCAGCAGATGA
AGCCCCACCGGGGACCACCCCCGAGCTCCAGCCGACGCTGAGGGGCCCCGAGGCTCCTCCTGGGAGGCCTGC
CTGAGTCTGGCACCATTTACAACCTCAGTGGCTGCATCAGCAACGTCTTCGTGCAGCGGCTCCTGGGCCACAGC
GCGTATTTGATCTGCAGCAGAACCTGGGCAGCGTCAATGTGAGCACGGGCTGTGCACCGCCCTGCAAGCCAGA
CCCCGGGCTGGGGCTAGAGGACTGCAGGCCTCCCGCCGACCGCTCAGCCCGCCCGGCATCCTGCCTGCATGC
TGCCCCACACCTCAGGACCACCCGAGACTCCTACCAGTTTGGGGGTTCCTGTCCAGTCACTGGAGTTTGTGG
GCATCCTGGCCCGACATAGGAAGTGGCCAGTCTCTCCATGCACGTCTCCCGCAAGCTCCCGAGGCTCCTCC
TCTTCACTGCCCCGTCTGAGGCCCGGCAGCCCCCTCCCTGGCGCTCTTCTGAGCAATGGCCACTTCGTGTCACAGA
TGGAAGGCCTCGGGACTCGGCTCCGCGCCAGAGCCGCCAGCGCTCCCGGCTGGCCGCTGGCACAAAGTCTCCG
TGCGCTGGGAGAAGAACCGGATCCTGTGTTGACGACGGGGCCCGGCTGGAGCCAGGAGGGGCGCACCGGC
AGCACAGGGGGCAGAGCACCCCCAGCCCCACACCTCTTTGTGGGCGGCTCCCGGCCAGCAGCCACAGCTCCA
AACTTCCGGTGACCGTCCGGTTACGCGCTGTGTGAAGAGACTGAGGCTGCACGGGAGGCCCCCTGGGGGCCCCCA
CACGGATGGCAGGGGTACACCTGCATCTTGGGCCCTGGAGGCGGGCTGTTCTTCCAGGCAGCGGGGGAG
TTATCACTTTAGACCTCCAGGAGCTACACTGCCTGATGTGGGCTGGAAGTGGAGGTGCGGCCCCCTGGCAGTCA
CCGGAAGTATCTTCACTTGGGCCAGGCCCCGACGCCCCCTACTTGCAATTGCAGGTGACCGAGAAGCAAGTCC
TGCTGCGGGCGGATGACGGAGCAGGGGAGTTCTCCACGTCACTGACCGCCCCCTCAGTGCTGTGTGATGGCCAGT

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FIGURE 5846D

GGCACCGGCTAGCGGTGATGAAAAGCGGGAATGTGCTCCGGCTGGAGGTGGACGCGCAGAGCAACCACACCGTGG
GCCCCCTTGCTGGCGGCTGCAGCTGGTGCCCCAGCCCCTCTGTACCTCGGGGGCCTGCCTGAGCCCATGGCCGTGC
AGCCCTGGCCCCCGCCTACTGCGGCTGCATGAGGAGGCTGGCGGTGAACCGGTCCCCGTCGCCATGACTCGCT
CTGTGGAGGTCCACGGGGCAGTGGGGGCCAGTGGCTGCCCAGCCGCCTAGGACACAGCCAACCCGGCCCCCTGGT
CAGGCCCCCTGCAGCTGCCTCACACCGCCCCCTTGCTGCTCGCCTCATAGGTGTCTATTTGGACTCTAAGCTCTACGG
GTGACAGATCTTGTTTCTGAAGATGGTTTAAGTTATAGCTTCTTAAACGAAAGAATAAAATACTGCAAAATGTTT
TTATATTTGGCCCTTCCACCCATTTTAAATTGTGAGAGATTTGTCACCAATCATCACTGGTTCCTCCTTAAAAAT
TAAAAAGTAACTTCTGTGT

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FIGURE 5847

CTTCTCTCTCGCGCGGGTGTGGTGGCAGCAGGCGCAGCCAGCCTCGAAATGCAGAACGACGCCGGCGAGTTC
GTGGACCTGTACGTGCCGCGGAAATGCTCCGCTAGCAATCGCATCATCGGTGCCAAGGACCACGCATCCATCCAG
ATGAACGTGGCCGAGGTTGACAAGGTCACAGGCAGGTTTAATGGCCAGTTTAAACTTATGCTATCTGCGGGGCC
ATTCGTAGGATGGGIGAGTCAGATGATTCCATTCTCCGATTGGCCAAGGCCGATGGCATCGTCTCAAAGAACTTT
TGACTGGAGAGAATCACAGATGTGGAATATTTGTCATAAATAAATAATGAAAACCT

6333/6881
FIGURE 5848

MQNDAGEFVDLYVPRKCSASNRIIGAKDHASIQMNVAEVDKVTGRFNGQFKTYAICGAIRRMGESDDSilRLAKA
DGIVSKNF

6334/6881
FIGURE 5849

AGTGCGCCTGCGCGGAGCTCGTGGCCGCGCCTGCTCCCGCCGGGGGCTCCTTGCTCGGCCGGGCGCGGCC**ATGG**
GAGAGGCCGAGGTGGGCGGCGGGGGCGCCGAGGCGACAAGGGCCCGGGGGAGGCGGCCACCAGCCCGCGGAGG
AGACAGTGGTGTGGAGCCCCGAGGTGGAGGTGTGCCTCTTCCACGCCATGCTGGGCCACAAGCCCGTGGTGTGA
ACCGACACTTCCACATGATTTGTATTGGGACAAGTTCAGCCAGAACATCGGGCGGCAGGTCCCATCCAAGGTCA
TCTGGGACCATCTGAGCACCATGTACGACATGCAGGCGCTGCATGAGTCTGAGATTCTTCCATTCCCGAATCCAG
AGAGGAACTTCGTCCTTCCAGAAGAGATCATTAGGAGGTCCGAGAAGGAAAAGTGATGATAGAAGAGGAGATGA
AAGAGGAGATGAAGGAAGACGTGGACCCCCACAATGGGGCTGACGATGTTTTTTCATCTTCAGGGAGTTTGGGGA
AAGCATCAGAAAAATCCAGCAAAGACAAAGAGAAGAACTCCTCAGACTTGGGGTGCAAAGAAGGCGCAGACAAGC
GGAAGCGCAGCCGGGTACCGACAAAGTCCTGACCGCAAACAGCAACCCTTCCAGTCCCAGTGCTGCCAAGCGGC
GCCGCACG**TAGA**ACCCTCAGCCCTGGTGGCGGCAGAGAAGCGGGCGAGGCACTGTGGTCGCTGAGGGGGTTGGCTG
GGTCTGAGTGCCACCCCCAGGCCACAGTGATACCATCCCAGTGCCATGAGCCACACTGCCCGCCCTCAGGCTC
TCAGGTGAACGTGGCCGTGAGCGGGAAACGTGTGTGTGAGTTGGACCATGTGGGACCCCGATGGACCTGAAAGA
CCAGGATCGGTCCAGCTCAGATATTGAGGGCTCTGAAGCCTAGTTCTGTCTTCTTGGAGCAGCTGTGGCTTCCC
CGTGGCTGCTTGGTGACATGGATTAGCGCTACGTGGGCTGCAGCATTGGGATCCAGGCTACCTAGAGGGGCATC
GGGCCAGGGAACCTCGGATTAGCAAGCAATAAAATATGACCTCACTCTTCTCAAAGGAGCCCTGGTCTTC
CCTGTGTGACTCAGTTCTTTCCATCTGTTTGTCCGCTGCAAGCCTCTTCTGCGCTGACTGTGACATCGGAACG
TGGCCTTCCGTGACCCCCCTCCGTGCCACGCACTGAAGGCCACCCCCACCCACCTGGGAACTAAGAACTGGATA
TTTTGCCTCATTCACTTGTACTGTAACAATGTATATAATTTGGTTGGTATTTCACTATTTAATTTTAAAGAAGCC
TATTTTACTAGTGTATATATGAACAAAGTACTGCAGAAGTTAAACCTGTGTTGTATTTTCTGAGATGTTTTG
CTTTAAGAGATACTTTTGTCTAGTTTTTATATGCCAGATACAGAGAATTTGTAGCGGTATTTTTTGTATGATC
TAGTAACTTGCAAACAGACCAAATGGATGAGAGGCGGGGACCGTGACGCTGTCGGCTGATGAGGAGGCGGCCGCC
CCAGTGCTGATGGAGATGCCACTTTCGTGTGACTGCGAACATTAAAGCACAAAAAATCC

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FIGURE 5850

MGEAEVGGGAAGDKGPGEAATSPAETVVWSPEVEVCLFHAMLGHKPVGVNRHFHMICIRDKFSQNIGRQVPSK
VIWDHLSTMYDMQALHESEILPFPNPERNFVLPEEIIQEVREGKVMIEEEMKEEMKEDVDPHNGADDVFSSSGSL
GKASEKSSKDKEKNSSDLGCKEGADKRKRSRVTDKVLANSNPSSPSAAKRRRT

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FIGURE 5851

CCCGCCGCCGCCGAGCATGGACGACCCCGACTGCGACTCCACCTGGGAGGAGGACGAGGAGGATGCGGAGGACGC
GGAGGACGAGGACTGCGAGGACGGCGAGGCCGCCGCGGCGAGGGACGCGGACGCGAGGGGACGAGGACGAGGAGTC
GGAGGAGCCGCGGGCGGGCGGCCAGCTCGTTCCAGTCCAGAATGACAGGGTCCAGAACTGGCGAGCCACGAG
GGACATGTGTAGGTATCGGCACAACCTATCCGGATCTGGTGGAACGAGACTGCAATGGGGACACGCCAAACCTGAG
TTTCTACAGAAATGAGATCCGCTTCTGCCCCAACGGCTGTTTCATTGAGGACATTCTTCAGAACTGGACGGACAA
CTATGACCTCCTTGAGGACAATCACTCTACATCCAGTGGCTGTTTCCTCTGCGAGAACCAGGAGTGAACCTGGCA
TGCCAAGCCCCCTCACGCTCAGGGAGGTGAGGTGTTTAAAGCTCCAGGAGATCCAGGAGCGGCTTGTCGGGC
CTACGAGCTCATGTGGGCTTCTACGGGATCCGGCTGGAGGACCGAGGCACGGGCACGGTGGGCCGAGCACAGAA
CTACCAGAAGCGCTTCCAGAACCTGAACTGGCGCAGCCACAACAACCTCCGCATCACACGCATCCTCAAGTCGCT
GGGTGAGCTGGGCCCTCGAGCACTTCCAGGCGCCGCTGGTCCGCTTCTTCTGGAGGAGACGCTGGTGGCGGGGA
GCTGCCGGGGGTGCGGCAGAGTGCCCTGGACTACTTCATGTTCGCCGTGCGCTGCCGACACCAGCGCCGCCAGCT
GGTGCACCTTCGCTGGGAGCACTTCCGGCCCCGCTGCAAGTTCGTCTGGGGGCCCCAAGACAAGCTGCGGAGGTT
CAAGCCCAGCTCTCTGCCCCATCCGCTCGAGGGCTCCAGGAAGGTGGAGGAGGAAGGAAGCCCCGGGGACCCCGA
CCACGAGGCCAGCACCCAGGGTCCGACCTGTGGGCCAGAGCATAGCAAGGTGGGGGCAGGGTGGACGAGGGGCC
CCAGCCACGGAGCGTGGAGCCCCAGGATGCGGGACCCCTGGAGAGGAGCCAGGGGGATGAGGCAGGGGGCCACGG
GGAAGATAGGCCCGAGCCCTTAAGCCCCAAAGAGAGCAAGAAGAGGAAGCTGGAGCTGAGCCGGCGGGAGCAGCC
GCCACAGAGCCAGGCCCTCAGAGTGCTCAGAGGTGGAGAAGATCGCTCTGAATTTGGAGGGGTGTGCCCTCAG
CCAGGGCAGCCTCAGGACGGGGACCCAGGAAGTGGCGGTCAGGACCCCTGGGGAGGCAGTGACGCCCTGCCGCCA
ACCCCTGGGAGCCAGGGTGGCCGACAAGGTGAGGAAGCGGAGGAAGGTGGATGAGGGTGTGGGGACAGTGTGTC
GGTGGCCAGTGGTGGTGCCAGACCTTGGCCCTTGCCGGGTCCCCTGCCCCATCGGGGCACCCCAAGGCTGGACA
CAGTGAGAACGGGGTTGAGGAGGACACAGAAGGTGGAACGGGGGCCAAAGAAGGTACCCCTGGGAGCCCATCGGA
GACCCAGGCCCCAGCCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCCAAGGCCCCG
CCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCCAAGGCCCCCGCCGGCAGGACCTGC
AGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCAGCCGGCAGGACCTACAAGGGATGAGCCAGC
CGAGAGCCCATCGGAGACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGA
GACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCCAAGGCCCCAG
CCCGGCAGGACCTACAAGGGATGAGCCAGCCAAGGCGGGGAGGCAGCAGAGTTGCAGGACGCAGAGGTGGAGTC
TTCTGCCAAGTCTGGGAAGCCTTAAGGAAAGGAGTGCCCGTCGGCGTCTTGGTCTCTCTGTCCCTGCTGCAGGGG
CTGGGGCCTCCGGAGCTGCTGCGGGCTCCCTCAGGCTCTGCTTCGTGACCCGTGACCCATGACCCACAGTGCTG
GCCTCCTGTGGGGCACTATAGCAGCCACCAGAAGCCGCGAGGCCCTCAGGGAAGCCCAAGGCCTGCAGAAGCCT
CCTGGCCTGGCTGTGTCTTCCCCACCCAGCTCTCCCTGCGCCCCGTCTTTGTAAATTGACCTTCTGGAGTGG
GGGGCGGCGGGCAGGGCTGCTTTTCTTAGTCTGATACCAAGCAAGGCCTTTCTGAATAAATTCAATTGACTTTG

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FIGURE 5852

MDDPDCDSTWEEDEEDAEDAEDCEDGGEAGARDADAGDEDEESEEPRARPSSFQSRMTGSRNWRATRD MCRY
RHNYPD LVERDCNGDTPNLSFYRNEIRFLPNGCFIEDILQNWTDNYDLLEDNHSYIQWLFFPLREPGVNWHAKPLT
LREVEVFKSSQEIQERLVRAYELMLGFY GIRLED RGTGTVGRAQNYQKRFQNLNWRSHNNLRITRILKSLGELGL
EHFQAPLVRFFLEETLVRRELPGVRQSALDYFMFAVRCRHQRRQLVHFAWEHFRPRCKFVWGPQDKLRRFKPSSL
PHPLEGSRKVEEEGSPGDPDHEASTQGRTCGPEHSKGGGRVDEGPQPRSVEPQDAGPLERSQGDEAGGHGEDRPE
PLSPKESKKRKL ELSRREQPTEPGPQSASEVEKIALNLEGCALSQGSRLTGTQE VGGQDPGEAVQPCRQPLGAR
VADKVRKRRKVDEGAGDSA AVASGGAQTLALAGSPAPSGHPKAGHSENGVEEDTEGRTGPKEGTPGSPSETPGPS
PAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAESPSE
TPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSPAGPTRDEPAKAGEAAELQDAEVESAKSG
KP

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FIGURE 5853

CCGACGCCGACGCTCAGACTCCGCTCAGCCATGGCCGGGCCGCGCGCGTGCGCCCCGCTCCTGCTCCTGCTCCTG
CTCGGGGAGCTTCTGGCGGCCGCCGGGGCGCAGAGAGTGGGACTCCCCGGCCCCCCCCGGCCCCCAGGGCCGCCC
GGCAAGCCCCGGCCAGGACGGCATTGACGAGAAGCTGGTCCTCCAGGTCTGCCTGGGCCCCGGGACCAAAGGGG
GCCCCAGGAAAGCCGGGAAACCAGGAGAGGCTGGGCTGCCGGGACTGCCGGGTGTGGATGGTCTGACTGGACGA
GATGGACCCCTGGACCCAAGGGTGCCCTGGGGAACGGGGAAGTCTGGGACCCCGGGGCCGCCGGGCTGGGG
GGCAAAGGCCTCCTGGACCCCCCGGAGAGGCAGGAGTGAGCGGCCCCCAAGGTGGGATCGGCCTCCGCGGCCCC
CCGGGACCTCCTGGACTCCCCGGCTCCTTGGTCCCCAGGACCTCCCGGACCCCTGGACCCAGGAGTTCTC
CCTGAAGGCGCTACTGACCTTCACTGCCCAAGTATCTGCCCGCAGGTCCCCAGGGCCCCCTGGAATGCCAGGG
TTCAAGGGACCCACTGGCTACAAAGGCGAGCAGGGGGAAGTCCGCAAGGACGGCGAGAAGGGTGACCCTGGCCCC
CCTGGGCCCCGCCGGCTCCTGGGCGAGCTGGGGCTGCAGGGCCCCCGGGGATTACAGGACTGCCAGGGCCACTC
GGGCCCCCTGGGACCGGGGTCCCATTGGGTTCCGAGGGCCGCTGGGATCCCAGGAGCGCTGGGAAAGCGGGT
GACCGAGGCGAGAGGGGCCAGAAGGGTTCGCGGCCCAAGGGTGACCTCGGCAGACCTGGTCCCAAGGGAACC
CCCGGAGTGCCGGGCCAAGCGGAGAGCCGGGCATGCCGGCAAGGACGGCCAGAATGGCGTGCCAGGACTCGAT
GGCCAGAAGGGAGAGGCTGGTGCACCGGTGCTCCGGGAGAGAAGGGCCCCAACGGGCTGCCGGGCCTCCTGGA
CGAGCGGGGTCCAAAGGCGAGAAGGGAGAACGGGGCAGAGCTGGGGAGCTGGGTGAGGCCGCCCCCTCTGGAGAG
CCAGGCGTCCCTGGAGATGCTGGCATGCTTGGGAGCGCGGTGAGGCTGGCCACCGGGGCTCAGCGGGGGCCCTC
GGCCCCACAAGGCCCTCCCGGAGCCCTGGTGTCCGAGGCTTCCAGGGCCAGAAGGGCAGCATGGGAGACCCGGC
CTTCCAGGCCCCCAGGGCCTCCGAGGTGACGTGGGCGACCGGGGTCCGGGAGGTGCCGACGGCCCTAAGGGAGAC
CAGGGTATTGCAGGTTCCGACGGTCTTCTTGGGGATAAAGGAGAACTGGGTCCCAGCGCCTGGTCCGACCCAAA
GGAGAGTCTGGCAGTCGAGGGGAGCTGGGCCCCAAAGGCACCCAGGGTCCCAACGGCACCAGCGGTGTTTACGGT
GTCCCCGGGCCCCCGGTCTCTGGGCTGCAGGGCGTCCCGGGTGTCTTGGCATCACGGGGAAGCCGGGAGTT
CCGGGGAAGGAGGCCAGCGAGCAGCGCATCAGGGAGCTGTGTGGGGGATGATCAGCGAACAAATTGCACAGTTA
GCCGCGCACCTAAGGAAGCCTTTGGCACCCGGGTCCATTGGTTCGGCCCGGTCCAGCTGGCCCCCTGGGCCCCCA
GGACCCCCAGGCTCCATTGGTACCCCTGGCGCTCGAGGACCCCTGGATACCGCGGTCCCCTGGGGAGCTGGGA
GACCCCGGGCCAGAGGAAACCAGGGTGACAGAGGAGACAAAGGCGCGGCAGGAGCAGGGCTGGACGGGCCTGAA
GGAGACCAGGGGCCCAAGGACCCCAAGGCGTGCCCGGCACCAGCAAGGACGGCCAGGACGGTGCTCCCGGCGAG
CCTGGGCCTCCCGGAGATCCTGGGCTTCCAGGTGCCATTGGGGCCCAGGGGACACCGGGGATCTGCGACACCTCA
GCCTGCCAAGGAGCCGTGTTAGGAGGGGTGCGGGAGAAATCAGGCTCTCGAAGCTCATATAAATTCAACGTGAGGA
AGCAAGTGACAAGGACGCCCCAAGCACAGTGGACGGTCATGAAGGAGCGGGGTGTGGCAGGCGGGTGACGTCCA
GGAGAGGGAGCGCCCTGGCTGCCCCCTCGGCCGCGGACTGGACGCGCGGGCCTTGCCAGCGAGCACCCCTCATCGG
GCTGTGCGCTGACAGCATACCTCAAAAGGCCCTAGCTAATAAACCTGTAAGCCAGCATTGAGAGAAGGTAGGG
TGTGTATATATAAAAGGTTGTGTACAACCTCCACGAGGTGAAAAATATTAGTAACCTTGTTTACATAGCATTGTG
TAAAGACTATGATCTCATCCCAATAAAATGATATATTAAACCTTCAGATTAATGACTGGCTACAGAGTAACAAAA
AATAAAGAATTTAATGTACAGTAAATTCTCTCCCAT

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FIGURE 5854

MAGPRACAPLLLLLLLGELLAAAGAQRVGLPGPPGPPGPPGKPGQDGIDGEAGPPGLPGPPGPKGAPGKPGKPGE
AGLPGLPGVDGLTGRDGPPGPKGAPGERGSLGPPGPPGLGGKGLPGPPGEAGVSGPPGGIGLRGPPGPPGLPGLP
GPPGPPGPPGHPGVLP EGATDLQCPSICPPGPPGPPGMPGFKGPTGYKGEQGEVVKDGEKGDPPGPPAGLPGSV
GLQGPRGLRGLPGPLGPPGDRGPIGFRGPPGIPGAPGKAGDRGERGPEGFRGPKGDLGRPGPKGTPGVAGPSGEP
GMPGKDGQNGVPGLDGQKGEAGRNGAPGEKGFNGLPGLPGRAGSKGEKGERGRAGELGEAGPSGEPGVPGDAGMP
GERGEAGHRGSAGALGPQPPGAPGVRGFQGGKGSMDPGLPGPQGLRGDVGDRGPGGAAGPKGDQGIAGSDGLP
GDKGELGPSGLVGPKGESGSRGELGPKGTQGPNGTSGVQGVPGPPGPLGLQGVPGVPGITGKPGVPKEASEQRI
RELCCGMISEQIAQLAAHLRKPLAPGSIGRPGPAGPPGPPGPPGSGHPPGARGPPGYRGPTGELGDPGPRGNQGD
RGDKGAAGAGLDGPEGDQGPQGPQGVPGTSGDQDGAPGEPGPPGDPGLPGAIGAQTGICDTSACQGAVLGGV
GEKSGSRSS

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FIGURE 5855

TCTAGCCCCGCGCCATCTCGGTGGCCGTCCGCCCACTCCGCGCGTTTCGGGGAAATGGCTGCGAGACCCTAGAGG
CCTGCGGCCTGCGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAAATACGAAGCCTGTTA
CTCGTGAACAGTGGCTGACAACAGTGTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAG
GGTTTTTGGTTGTATTAGGATTTTCAAGGAAAAGTGTCCAAGCTTTTCAAGTGTGGAGCAGGTATGGACGACAAAG
GCGACCCGAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAAGAAAACATGGGGTTTTTC
GAAGGACCACTATCGCCAAGCGAGAGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGC
AGCAGCTGGGCCTGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTTCTGACCA
TTGCGCGGCGCGCGCGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCCACGTCCTGCCCCGCCA
CAGACGCCGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGCCCCCAGTCTGCTTCCA
CAGCTGTGAAGGAACGACCAGCCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTG
ACAGCGATGGCCTGACCTTGAAAGAGCTTCAGAATCGCCTTCGAGGAAGCGGGAACAGGAGCCCACTGAGAGGC
CCCTGAAAGGGATCCAGAGTCGCCTGCGGAAGAAGCGCGGGAGGAGGGTCCC GCCGAGACTGTGGGCTCCGAGG
CCAGTGACACTGTGGAGGGCGTCTGCCAGTAAGCAGGAGCCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTG
GGAAAGATGACAGAGAGAGTAAGTTGAGGGGAAAGCGCGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGG
GCCGACCGAAGCCTGAATGTGAGGGTTACGACCCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACA
GGTTTATGATTTGCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGA
GGCTTTTGGAAAGGAATGGGGAAGACTATATCTGCCCAAACCTGCACCATTTCTGCAAGTGACAGGATGAGACTCATT
CAGAAACGGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCATTGTACAAGTATAGGAA
CAATAGAGCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGAAGA
AGAAACTCAAGATCTTCCAGCCTGTGATAGAGGCGCTGGTGCCTCAAATGTATTGGCCCCGGGTGCTGTACG
TGGCGCAGCCCCGACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCCGCAGCGACAATGAAGTTTCTAA
GCTCAGGTAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAAT
GCGGTGCTCAGGCAGGTATTTAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGA
AGAAGGCAGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCAGCCGCTCGT
GGGCGAGCGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGCTCACTGTTGTATAAAT
GTATGTATCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCCTGGGCCTGTCCAG
GACTGGGAGTTGCAGCTTTGTGTAAAGCTGATCAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGT
CCAGGATGCCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTGAGGACTTCTGTCACTGTTTTCCAAAGCTGTAA
ACCTCACTGGTGAACGTTACCTTAAATGATTGATTCTTTAATCTCTGTTTTTCACTCTCAGGCTCTGGTAAGTATT
CGTATTCTCTTCAATCCAGTCTGATTGCATAGCCACACTGCCCCGACGCCACATCCACCCCTGTCTGCACATGA
GTTGTTCTGACAACAGCGCTGTATACGCTTCAAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTT
CTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTTCATCTGATTTTCAAGTGTACATTTATTTTTGACTGGG
CAGATAGGGGATTTTTTTTTTCCATGTCCGATTACACGCTACACCCACATGAACACATTTCGAACCTTCGAAG
GCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTTACACCTAGAACACTGTCCTGACCGCAGGACGCG
TGCCTTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCA
TATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTG
CAATTTTAAATGTTTTCTTGTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5856

MDDKGDP SNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTEPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICDRCEEFHGD CVGIS
EARGRL LERNGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPD SVYCSNDCILKHAAATMKFLSSGKEQKPKPEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETT VKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPGLGVAALC

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FIGURE 5857

GGGAGCGGGAGGGCAGGCGCACCGGAGGCCGCCCTCAGCACCTCTCGCGACAGCAAGAGAGCGCGAGAGCGCGA
GCCGATGACCAATGAAGCGCCCCCGCGAGGGGGCGGGGCGGACGGCCTCCCGGAAGCGCGGAACCTCAGCTTCCG
TACTTGGCGAGAATCCCCTCGCGGCGACCACGCACACTACGGGTGGCGCCAGAGTCAAAAGGCGTCGGCCCTCTG
GCAAGATGGCTGCTGCGGAGGCGTTGGAGCGCGGAAATCTGGAACCGGGATGGCGACGTCTACACTGAGTCGGAG
GCGAAGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGA
ACAGTGGCTGACAACAGTGTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTT
GGTTGTATTTAGGATTTAGGGAAAAGTGTCCAAGCTTTAGTGTGGAGCAGGTATGGACGACAAAGGCGACCC
GAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAGGAAAACATGGGGTTTTTCGAAGGAC
CACTATCGCCAAGCGAGAGGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCT
GGGCTGTTCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTTCCTGACCATTGCGCG
GCGCGCGGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCACGTCCTGCCCGGCCACAGACGC
CGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGT
GAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGA
TGGCTGACCTTGAAGAGCTTTCAGAATCGCCTTCGCGAGGAAGCGGGAACAGGAGCCCACTGAGAGGGCCCTGAA
AGGGATCCAGAGTCGCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGGGCCAGTGA
CACTGTGGAGGGCGTCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTGGGAAAGA
TGACAGAGAGAGTAAGTTGGAGGGAAAGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACC
GAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAAACAGGTTTTAT
GATTTGCTGTGACCCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTT
GGAAAGGAATGGGGAAGACTATATCTGCCAAACTGCACCATTCTGCAAGTGCAGGATGAGACTCATTAGAAAC
GGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCATTGTACAAGTATAGGAACAATAGA
GCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGAAGAACT
CAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTACGTGGCGCA
GCCGACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGACGCGACAATGAAGTTTCTAAGCTCAGG
TAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAATGCGGTGC
TCAGGCAGGTATTAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGC
AGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCAGCCGTCGTGGGCGAG
CGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCACGTGTTGTATAAATGTAIGTA
TCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTCTTCTGATAGCCATCCCTGGGCTGTCCAGGACTGGG
AGTTGCAGCTTTGTGTAAAGCTGATCAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGTCCAGGAT
GCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTGAGGACTTCTGTCACTGTTTTCCAAAGCTGTAAACCTCAC
TGGTGAACGTTACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATTCTGATTCT
TCTTCATCCCAGTCTGATTGCATAGCCCACTGCCCCGACGCCACATCCACCCCTGTCTGCACATGAGTTGTTT
TGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTTCTTTTTT
ATGTTGTGGGAATCTTTGCAAGTTAGTGTGATCTGATTTTCAGGTGTACATTTATTTTACTGGGCGAGATAG
GGGATTTTTTTTTTCCATGTCCGATTACACGCTACACCCACATGAACACATTGCAACTTCGAAGGCCACAC
ACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTACACCTAGAACACTGTCCTGACCGCAGGACGCGTGCCTTG
GACTTGGTATTCTACATGTGACTGGCTTCTTGCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCATATCCTG
CCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTGCAATTT
AATGTTTTCTTGTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5858

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTEPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICDRCEEWFHGDCVGIS
EARGRLLERNGEDIYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILKHAAATMKFLSSGKEQKPKPEKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETT VKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPGLGVAALC

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FIGURE 5859

GGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGAACAGT
GGCTGACAACAGTGTGTGTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTTGGTTG
TATTTAGGATTTTCAGGGAAAAGTGTCCAAGCTTTCACTGTTGGAGCAGGTATGGACGACAAAGGCGACCCGAGCA
ATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAGGAAAACATGGGGTTTTTGAAGGACCACTA
TCGCCAAGCGAGAGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCTGGGCC
TGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCTTGACCATTGCGCGGCGCC
GCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGTTGAGCCACGTCTGCCCCGCCACAGACGCCGAGA
CAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGTGAAGG
AACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGATGGCC
TGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCTGAAAGGGA
TCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGTTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGACACTG
TGGAGGGCGTCTGCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCCAGGCTGGGAAAGATGACA
GAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACCGAAGC
CTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTATGATTT
GCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTTGGAAA
GGAATGGGGAAGACTATATCTGCCCAAAGTGCACCACTTCTGCAAGTGCAGGATGAGACTCATTGAGAAACGGCAG
ATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAACAATAGAGCAGA
AGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAAATCCAAGTGGCAAGAAGAACTCAAGA
TCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTACGTGGCGCAGCCCG
ACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGAGCGACAATGAAGTTTCTAAGCTCAGGTAAAG
AACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCAGTCTTCCGAAATGCGGTGCTCAGG
CAGGTATTAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGCAGTGG
TGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCAGCCGTCGTGGGCGAGCGATC
ACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCAGTGTGTATAAATGCTCTGGTAAAT
ATTCGTATTCTCTTCATCCAGTCTGATTGCAATAGCCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACA
TGAGTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCA
CTTCTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTTCATCTGATTTTCAGGTGTACATTTATTTTTGACT
GGGCAGATAGGGGATTTTTTTTTTCCATGTCCGATTCACACGCTACACACCCACATGAACACATTGAACTTCG
AAGGCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCTGACCGCAGGAC
GCGTGCCTTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGA
TCATATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTG
GTGCAATTTTAATGTTTTCTTGTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5860

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDCVGIS
EARGRLLERNGEDIICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSEDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPD SVYCSNDCILKHAAATMKFLSSGKEQKPKPKCKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETT VKKAVVVPARSEALGKEACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCSGKYSYSLHPSLIA

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FIGURE 5861

GGAAGCTGGTGGCGGCTGGTGGGCGACCGGGCGCATCCTCATTGCAGTGCGGCGGCCCTACCTCGGCCCTGGCCT
GACCCCGGCGGCCCTGCCCGCCCTCCCTCCAGCATCCATGGCCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGT
CAGGGTGCAGGATGAGAACAACGTTTGTGTTTGTAGTGTGGCGCGTTCAATCCTCAGTGGGTGAGTGTGACCTACGG
CATCTGGATCTGCCTGGAGTGCTCGGGGAGACACCGCGGGCTTGGGGTTCACCTCAGCTTTGTGCGCTCTGTTAC
TATGGACAAGTGGGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTAAGTTCGAGAGTTCTTGGGA
GTCTCAGGAGGATTACGATCCTTGCTGGTCCCTTGCAAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGA
TAAGGTGGTTCGCTCTGGCCGAAGGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCCAGAACTGGACCCACCTCA
GCCAGGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGAGAGTGTGACCGCCTCCTCGGACAAGGC
TTTTGAGGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCAGGGGAATCGCTACGTGGGGTTTGGGAA
CACGCCACCGCCTCAGAAGAAAGAAGTACTTCTCAACAACGCCATGTCTCCCTGTACTCGGGCTGGAGCAG
CTTCAACCACTGGAGCCAGCCGGTTTGCTTCGGCAGCCAAGGAGGGCGCTACAAAGTTTGATCCCAAGCGAGTCA
GAAGGCGTCCGAGCTGGGCCACAGCCTGAACGAGAAGCTCCTCAAGCCTGCGCAGGAGAAGGTGAAGGAGGGAAA
GATTTTGTATGATGCTCCAGTGGGGTCTCTCAGTTGGCGTCCAAGGTCCAGGGAGTCGGTAGTAAGGGATGGCG
GGACGTACACACCTTTTTTTCGGGGAAAGCAGAGGGCCCTTGGACAGCCCTCGGAGGGCCACAGTTATCAGAA
CAGCGGTCTGGACCACTTCCAAAACAGCAACATAGACCAGAGCTTCTGGGAGACCTTTGGAAGTGTGAGCCAC
CAAGACCCGCAAGTCCCCGAGCAGCGACAGCTGGACGTGCGCGGACACCTCCACCGAGAGGAGGAGCTCGGACAG
CTGGGAGGTGTGGGGCTCGGCCCTCCACCAACAGGAACAGCAACAGCGACGGCGGGGAGGGCGGGGAGGGACCAA
GAAGGCAGTGCCGCCGGCCGTGCCACTGATGATGGCTGGGACAACCAGAACTGGTTAGGGCCCACTGCGCCCCCG
TCCCCAGCGCCCCCGGGCGACTTCGTGTTTGCACTCTGCCCTCGTCTCCTCCTCCTTCCATTGACCCAAGAA
TCAGCAACTGCAGTGTGAGGACAGCGTCTCGGGAGGACAGGACCTAGGGAGACCCGGGTGTGCGCCGCCTGCGCG
TGGGGAGTCTTCGGTGCCTGGGGGCGGCTTGCTGTCCAGCCTGTGTGGGGGCGTCCCGTCCCACTCCCTGG
GCATTCTTGGACTCAAGGCCGGGGCTCTGCGTGGCTTGCTGGGAGGTGGGCTGCAGCACAGAGGCCTGTGACTGC
GTTCCAGCGGCCAGTTCACTACGCAGTATCTCTGGGCCTGGGACCAGCCACGTGCCGAGCTGTGAGCGACGTGA
GGTGTCCCTTCTCGTTGAGATATTTAACTTTGGTTTGTCTCTAGTTCTTTCTTTTGAAGAGAGTGACTGGAGTG
GTAAAGATGGAAATGCTGGAAATGATACTGGCGCTCACGCTGCCATCCGACCACCCTCGGCTCCCGAGTCCACGC
CTGCTGGGCCCTGTGCTGTGAGACCCGCGTGGTCTGTAACCTCTGTGGCTCCCTGCATCAGCACCGTCCCAACC
ACCAAGTTCACCAAGTTTACCAAGACACGGCCTCCACAATAGCCACACCCACACCTGAGCTGTCTCAGTGTGGA
ACTTGACCATCTGGAACACCCTGGAAGAAAAAGGAGCGCAGGGTGGGCCCTCGGCCCTGATGCAGGAGGGTGCG
ATAGCGGACGTGGCCAGGCAGGAGGGGCGGGTTTCAAGGAGCTGAGCAGGGGATGCCTGTGCGTGGTGCCTGGGTC
TAGGGAAGCTCCAGCCCCAGGATGGGGCTGCCCTGCACACCGGTGCCCGCCACATGCCAACCCCTCACCTCCCCGA
GGACTGGATGATGTGCTGCCACGTGTGACTCGTCTCCCTTGTCTGCCCTGTGTGACCCCTCAGTCTTGGCCAGCCA
TGCATGCGCCCGAAGCTCGTGCAGTTTGTACGTGAGGTGCTCTCCTCCCTGCCACCATGCTCATCACTCTGGCCT
TGGCCATGCTCCCTGGTCACCCCACTTCCCGTCTGCCGTCTGCAGCACTCCTGGAGCAGCCTGGGCCCTTACGCC
CCTGTGCTCGTCCCAACCCTAGGGACTCAGTCACTTGCAAGACAGGATGGGACCGAGATTTACGCGAGCCCTCCTG
GCGCCCGTCTCCCTGTGGGCACCAGCCCTCTTGGTAGCTGGTGTGGAGGGCCGGTGTCTTGGCTGCCACGGA
GGGATTTGATCACCGAAGCAGCCACCTGCTGTAGTTGGACCTGAGGTGAGGCGGGGCATCAGAGGCTCAAGGT
GCTGAGAAGCCACCGGGAAGCAGCCAGCACAAAGGGCCCAGGAAGCCAGCCCCGAGAGCTGAGCGTGGGGGTC
TTTGTGTCTTTCTCCAAGCTGAGACGTGGGCGGCCGCGTGGTATCTCCCGAGGGCTGCTTGGACCTTGGTGGG
CTGAGTGTCTCCGAGGAGGGTGGACTCCACCTTGGACAGTGGGATGTGGTGTTCACATGTGCTGTTTCCACGC
CAGCACCTTGACTTGGCAGCATGGAGCCAAGGTCTGTCCCCGCCAGGAGGGTGCCTTCTCGGGGGTAGGGGGA
CGGCCCCACTCTGCCCCAGGGAGTCCCTTTTGTATGGGAAGTGCAGTCAGCAGCGTGGAGGTGTCTGGGCCACCTTC
AGAAGGTGGATGTGGTGGCCGAGACCCCGTCCACGGAGGGTGTGGCCTTTCCCTTCTGCAGGTGCGGGCAGGTG
GGCCTGGGACCGGTGTGGGGCCTCTCCTTGTGTGTGTGAGGGCCAGGTGGAAGGCGCGGACCTGACAGCATT
CCAATAAAGCATACGGGAACATG

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FIGURE 5862

MASPRTRKVLKEVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDIELEKM
KAGGNAKFREFLESQEDYDPCWSLQEKYNSRAAALFRDKVVALAEGREWSLESSPAQNWTPFPQRTLP SMVHRVS
GQPQSVTASSDKAFEDWLNDLGSYQGAQGNRYVGFGNTPPPQKKEDDFLNNAMSSLYSGWSSFTTGASRFASAA
KEGATKFGSQASQKASELGHSLNENVLKPQAEKVKEGKIFDDVSSGVSQLASKVQGVGSKGWRDVTTFFSGKAEG
PLDSPSEGHSYQNSGLDHFQNSNIDQSFWETFGSAEPTKTRKSPSSDSWTCADTSTERRSSDSWEVWGSASTNRN
SNSDGGEGGEGTKKAVPPAVPTDDGWDNQNW

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FIGURE 5863A

CACCAAGCCAGGATCCGCGCACTCCTGGTGGGTCAGAGTGGAGAGAGACCGGCCCCAGTTCCGCTGCCTGCCCC
CCGTGCCTGCTGACATGGTCTTCTGGTGGACGGGTCTGGAGCATTGGCCACAGTCACTTCCAGCAGGTCAAGG
ACTTCTGGCCAGTGTGTCATCGCACCCCTTTGAAATCGGGCCGGATAAGGTCCAAGTAGGCCTGACTCAGTACAGCG
GGGATGCTCAGACTGAGTGGGACCTGAACTCCCTCAGCACCAAGGAACAGGTGCTGGCAGCTGTGCGCCGCTCC
GCTACAAGGGGGGAACACGTTACAGGCCTTGCCCTGACCCACGTGCTGGGGCAGAACCTGCAGCCGGCGGCTG
GCCTCCGTCCAGAGGCAGCCAAGGTGGTGATTCTGGTGAAGGACGGCAAGTCCCAGGACGATGTGCACACTGCTG
CCCGTGTCTCAAGGACCTGGGCGTGAACGCTTTCGCTGTGGGTGTGAAGAACGCCGATGAGGCTGAGCTGAGGC
TCCTGGCGTCCCCGCGGAGGGACATCACCGTCCACAGCGTGTGGACTTCCTGCAGCTCGGCGCGCTGGCTGGCC
TGCTCAGCCGTCTCATCTGCCAGAGGCTCCAGGGTGGGAGCCCGCGGCAGGGCCAGCAGCGGCTCCAGCCCTGG
ACACCTTCCCTGCCCCCACCAGCCTGGTCTGAGCCAGGTGACCTCCTCCAGCATCCGCTGTCTGGACTCCAG
CCCCCGGCACCCCTCAAGTATCTGATCGTTTGGCGAGCCTCTAGAGGTGGCACCCCAAGGAGGTGGTGGTGG
AGGGACCCGCGCCTCCACGGAGCTGCACAACCTGGCCTCCCGCACAGAGTACCTGGTCTCCGTGTTCCCATCT
ATGAGGGCGGGGTTGGCGAAGGCCTGCGGGGCTGGTGACCACAGCACCTCTGCCTCCGCCCCGGGCGCTGACCC
TGGCCGAGTGACGCCCAGAACCGTCCACCTCACCTGGCAGCCCTCGGCCGGGGCCACCCACTACCTGGTGCGAT
GTTCTCCTGCTTCCCCAAGGGTGAAGAGGAGGAGCGAGAGGTGCAGGTGCGGCGGCCCCAGGTGCTGCTGGATG
GCCTGGAACCTGGCAGGGACTATGAGGTCTCGGTGCAGAGCCTGCGAGGCCCTGAGGGCAGCGAGGCCGGGGCA
TCCGTGCCAGGACCCCCACCTGGCCCCCGAGACACCTGGGCTTCTCAGACGTGAGCCACGACGCGGCACGAG
TGTTCTGGGAGGGTGCCCCGAGGCCTGTGCGCCTGGTCAGGGTCACCTATGTGTCCAGCGAGGGTGGACACTCGG
GGCAGACAGAGGCTCCTGGGAACGCCACCTCGGCCACGCTGGGGCCTCTCTTCTTCCACCACCTACACTGTCC
GTGTACCTGCCTCTACCTTGGGGGTGGTTCCTCTACGCTGACTGGCCGGGTGACCACCAAGAAAGCTCCCAGCC
CAAGCCAGCTGTCCATGACGGAGCTGCCAGGGGATGCAGTCCAGCTGGCGTGGGTGGCCGACGCCCCGTCTGGCG
TGCTTGTCTACAGATCACGTGGACGCCCCCTGGGAGAGGGGAAGGCTCACGAGATCTCTGTCCCAGGGAACCTCG
GCACGGCCGTCTGTGCTGGCCTAGGGAGGCACACAGAGTACGACGTACCATCTTGGCCTACTACAGGGACGGGG
CCCGCAGTGACCTGTGTCCCTCCGCTATACCCCTCCACGGTGAGCAGGAGCCACCCCTCCAACTGGCCCTGG
CCTCGGAGACCCCCGACAGCCTGCAGGTGAGCTGGACGCCCCCGCTTGGCCGCGTGCTCCATTACTGGCTCACCT
ACGCCCCCGCCTCTGGCTTGGGACCCGAGAAATCCGTCTCTGTGCCAGGAGCCAGGAGCCACGTGACACTGCCCCG
ACCTGCAGGCAGCCACGAAGTACAGGGTCTGGTCTCAGCTATCTATGCAGCAGGCAGGAGTGAGGCTGTGTCTG
CCACGGGCCAGACAGCCTGCCAGCCCTCCGCCCTGACGGCTCCCTCCCAGGGTTTGACCTGATGGTGGCCTTCA
GCCTGGTGGAAAAGGCTTATGCGTCCATCCGGGGCGTGGCCATGGAGCCCTCTGCCTTCGGTGGGACCCCGACCT
TCACGCTCTTCAAGGACGCCAGCTGACAAGACGGGTGAGTACGCTTACCCAGCCCCCTACCTCCAGAGCACA
CCATCGTCTTCTTGTGCGCTACTTCCCGAGACACCCCGTGAGGCCTTCGCGCTGTGGCAGATGACAGCCGAGG
ACTTCCAGCCCCCTCTTGGGGTTCTGCTGGATGCCGGGAAGAAGTCCCTGACCTACTTCCACCGTGACCCAGGG
CTGCCTTGACAGGAGGCCACCTTCGACCCGAGGAAGTGAGGAAGATTTCTTCGGGAGCTTCCACAAGGTGCACG
TGGCTGTGGGCCGCTCCAAGGTGAGGCTCTATGTGACTGCCGGAAGGTGGCTGAGCGGCCCTTGGGGAGATGG
GCAGCCACCCGCTGCGGGCTTCGTACGCTGGGGAGGCTGGCCAAGGCCAGGGGCCCCGGAGCAGTTCGGCCG
CGTTTCAGCTCCAGATGCTGCAGATCGTGTGAGTGACACCTGGGCCGATGAGGACCGGTGCTGTGAGCTCCCTG
CCTCGAGGGATGGAGAGACCTGCCCCGCCTTCGTGTCTGCCTGTTCCTGTCTCAGAGACCCCTGGGCCCCCAG
GACCTCAAGGACCCCCAGGCCTCCCTGGGAGGAATGGCACCCAGGAGAGCAGGGCTTCCCAGGGCCCAGGGGTC
CACCAGGGGTCAAAGGAGAGAAGGGAGACCATGGGCTTCCAGGCTTGACAGGGCCACCCGGCCACAGGGCATCC
CCGGGAGAGTTGGCCTCCAGGGACCAAGGGAATGAGAGGCTGGAGGGAAGTCTGGCCTGCCTGGACCCCTGG
CCCCAGGGGTTCCAGGGCATGGCAGGGGCCAGGGGCACTAGTGAGAGCGAGGACCTCCAGGGACCGTGGGGCC
CACAGGACTGCCAGGGGCCAAAGGGGAACGAGGAGAGAAGGGCGAGCCGAGTCCCTTGCCACCCTCTACAGCT
TGTGAGCCAGGCCTGTGAGTCTGCCATTGAGACACAGTGTCAAAGTTCGACTCCTTCCACGAGAACACAGGCC
CCCCATGCCATCTTGGAGCAGAAGCTGGAGCCGGGCACTGAGCCCCCTGGGGTCCCCTGGCACCCGAGCAAGGC
CCTGGTTCTGGAGAATGGGGGCGTGGTGGCCGCCACCTTGAGGGCAGAGGGGAGCCTGGAGCTGTTGGTCAAGT
GGGCAGCCCTGGGCAGCAGGGGGCTAGCACCCAGGGCCTCTGGGAGTGACAGGACATTTCTGCACTGCCCGGAG
GAACGCTGAGCCTTCTCCCTGGGTTTGTCTGGACACCGAGAGCGACCACATCCTGGAGAAGCCAGGAGAAAAGC
TCAGGAAGAGCCTGCAGGTGGAAGGAGAGGGAAGCAGCGGCCCTGGCCAAGGGCCACCCATACTCTTGGCTCTG

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FIGURE 5863B

TAGCATTTC AAGTTCAGATAAACCCCTGAGTGCTACCCAGCCAAGCGAGGCGGGAGTCATTTCCTGGGAGAGT
GTCCCCACCCCTGGCTCTGTGCACCCACCTTGAGGCCCTGCAGCTTCAGCCGCAGTGGGGAAGGGGAGGGGCTG
GGCTGATGGCGAATCGGGTTCAGGAGGGCAGCAGTGCCCTGTGGCCGTCTCAGTAGCTCTAAACAGGGCTCAACA
ACATGCCCCGCCCCTTTCTCTGGGCCTCATCTAAGCCTGGCCAGGGCCCTGTGGGCCCGCCTCTCTCTGCGCCTC
ACG CAGGCAACAGATGGTTCCACTGCTGGCCACCAGTCACCTGCACGATGGCTCCTCCCTCAGAACAGCACTCC
CACCCCGGCCCCAGCACCTTCACATCTGGGCACAGGCAGGTCCCTGCCTGCCTCATCGTCCCCCTCTGTCCCCAGC
CCAAGAAGGAGTTCAGATCCTGTGTGTGAATGGCCACCCCTCACCACCCAGCCCTGTGTGAGTTCCTTGTGCA
GGGACATTGCTTTGAGACTTGGCACCATCAGCCCTGGTCCTTAGGGTCTCAGAGCAAGGTCATCCCTCAGCAGG
CTTCTGGCCTGTGCGCTCCTCAGCACCTCTGCCAGGTCTCTCCCAACCATCACAGACGCTGTGTGAGCCTGGAC
TTCTGCTTATCCCACTGTGGCCAAACAGCATGGGGGCAAGCTCAGAACACACACCTGGGCTTCTGGGCCTT
GTGGCCCGTGGGGGTGATGTGGGAACCTTCTACTTCTTTCCAAACAAATATTAGTAAGTACTAGTCCACTGTTACCA
CTTAGGCAGCTAAGCAAGAAAGGTGCCAGAAATGAAGAGGGAAGCCATATCATTGAGGAGAGAATGAAAAGTATT
AAAAAGGAACAAAGAGAGACCCCTTGATATTGACAGAAGGAAAACCCACCAAGATCACCAGTGCAGCATTGCGTGC
ACCAAAGCATACCCCAAAGAGGTGAGCGCAAAACAGCTTCAGGGCAAACTTCATCTATGATTCAACTGTTCCA
GGAAGTGAACAGACCTGGAGACCAAATAGAGAGTCTATAGGCAGGGTGCAGAGGATGGGAGAGAGCGCCTGCACCC
ACAGGAGCCACAGCCCTGACTGAGGCCAGGAAGCAGCCCCAAATGCCAGCTCCCACTGCAGCATGAGAACAGAAA
CAGACCACTGAAAAATCCCAAAGTCTGTGGACAAATCAGACGTCGAAGAAGTCACGTGGCATCGAGACAGATTTT
GCACTGAGGGACAAAGGAGAGCATGTGGCCAAAGTAGGTGCAGGTAAAGCAGCATCTGGGGCAGAGTTATAGCCTT
CAGTGCAGGTATCAGACACAGTTGTTGAGAGCAGCAGCCCAAGCCAGCCCTCCGTCTGCAGGGAGGACACCTA
GGTCACTTGGCTTCTGTGTTGGGGAGCTGAGTTGCTTCAGATTGTGTGACCAGCAAAACAGCTTGGTTGCTCTACT
TGGTTTCTCCAGGGCGGGGAATTACATGTCCCCAGCTGAACTGAGAAGGCTCTTTGAGCAGTGGAGTGAGCAGGC
TTTGTCTATGAGGCAGGAGTGGGGCTAGAATCAAGCCCAGAGCCCACAGGGCATCCAGAGCCTTCCAAAGGAGCCC
CTCTCCTGGGGCTCTCCAATTTGATGAAGGGACTGGGCCTGGGTGGCTGAGACCACATTGGCAGCCAGGAGGAG
GCAGCCTGGCCGGGGGAACAGGGTGGCTCTAATCCCCACCACCCCTCAGCTGCCCTACCCCCGCCACGCTGG
TGTGACACCACTGATGCTCAGCCTCAAAAGGGGAGTCCGGCTGTCTTCGGGAAACTGACTTTATGCTGGAGGCCA
ATTAAATGGCAGCAAGGAGCAGCGGCCAGCTGGTGCCAGGCAGCTTAGGGACTGGTCCCTGAGGCCCCACCC
GCCCCAGCCTGTGCAGTGGAGCTGAGTACGAATCAAAGGTGAGGATGGCAAGGGAGCTGAGAGCAGCCTCCGGAT
GCACCAAACCGCCTGGCTCCTGTTG CAGGAAGGCAGCCTCCCCGAGACCCAGCCGACCTGCACGTCTCCCATC
AGCCCCGACTCCACCGCATCCCTCTGGGTCTTTTAGGAGCCCCCAGGGACTGAGCCGGGGCTCACGCTCCTGGC
CAGAGCGCTGGGTTTCTGGCAATGCCTCCCTCCTGCCTTTACGGCCACAGCTCTCCCTCCAGAGGCCCTCTG
TAGTGGGCCCTCGGTCCCTCTCCACCCCCAGAGGCAGCACAGCTTCAGCCCTACGCAGTGTGGGGGCTCCGGGAG
GAAATGCAGGGAGGTGCTTGGTCTTGGCCAGAGCTCATGGCCTTAGGTGCTGCCCCCAGTCACCCCGTGCCCA
TGCAGCCGGGGATGTT CAGCTCAGGCCAGCCACCGAGGTGGTGTGACGCAAGGCTGATCTGACGCTCAGCTCAGG
CCGCTGGGGTTCATGGGGGTTGTGGGAAGGTTCATGGAATCACGGGGCTCACGCTGGGGTTCAGGGTGGTGTGGCT
GTGTGGACTGTAAGGGGCTGCAGCCATGCGTATCTGACCTGCCCTCCCTAGGTCTGCAGGCAGTGCCGAGTGGC
TCTGCCCTGAGGCCCAAGAGCGACCTTGGAAGCTCCAGGCCTTCACAGCCCTCTGAGAGCCACCTGCAAGGTGG
GGAGCTGGGAAGAACGGCTCAGTGATGAGCTCAGAGGGAGGGGTGGGCACAGCGCCAGGAAGGCGGGTGCCTGC
AGGCCTGGGAGGAATGTGTAGCAGGAGGCAGGGGGTGTGTGCCCCGAGGACCAGCAGGTGAGGCGTGTCCACCC
ACAGAGGATGGCTCTGGCCAGGCAGTGT CAGAAATGGAAGCTGAGGAAACCCAAACCCAGCTGTAGAGGAGCCT
GCCCCGATGCCATCTGCACCTGGGGGGCGACGTATGGCTGCCAGCCTCTTCTATCTACCAAGGACCAGGGCAGTGG
GGACGGGAGAGCTGGGACACGTGGACTCACACCAGGGCAGATGGTGGGGGAAGCCAGTGTCTGTAGATT CAGTGC
ATTTCTTGGGGAAGGGCGTGAACATTTGGAAGCTTGAAGCTTGAAGCTTGAAGCTTGAAGCTTGAAGCTTGAAGCT
CGTGATCTGATGGTAAGTACAGAACTCCTTGCCAGTGGAGAAACACTCTCCTCTCATGTGTGGAATATCCACAC
ACTAACCATGAACTGGGCCATAAGAAACCTTACATTCCAAAGGATCCTGCTGTT CAGAACTCACTCACTCACTGA
TGAACTGGAAAAACAACCAATGATAACAAGCTAAAGAAATGCCCTTAGAAGCTAAAAGACACACCCATGACTCCA
CAGTAATTCATGGGTAAAGAGAAAAAAGGAAACGTGAAGATACTTGTAAACCAATAATGATGGATGCAGCGCCA
CGTCAGAACTCTGTGCTGCAGCTGCAGTGGTACCTAGAGGGCAATTTATAGCTGTAAATACAGTGCTTTGTTTT
GTTTTCTGTTTTTTT GAGACAAGGTCTTGCTCTGTACCCAGGCTGGAGTACAGTGGCATGATCTCGGCTCAATG

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FIGURE 5863C

CAACCTCTGTGCCACCCTGGGCTCAAGTGGTCCTCCTGCTCCGGTCTTCTGAGTAGCAGGAACCAAGGCGTGCG
CCACCACGCTTGGCTAATGTTTTTGTATTTTTTAAATAGAGACAGGGTGTTGCCGTGTTACCCAGGCTGGTCT
TGAATTCTGAGCTCAAACGATCCACCCTCCTTGGCCTCCCAAAGTGGTGGGATTACAGGTGTGAGTCACCTCAC
CGGCCCTTAAACACAGTTTTTAGGGAAGATTCCAACCTCAAACAATTTTAAATAGTAGAAAATAAACCCCTGAAGCA
GTGTG

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FIGURE 5864

MVAFSLVEKAYASIRGVAMEPSAFGGTPTFTLFKDAQLTRRVSDVYPAPLPPEHTIVFLVRLLPETPREAFALWQ
MTAEDFQPLLGVLLDAGKKSLTYFHRDPRAALQEATFDPQEVKIFFGSFHKVHVAVGRSKVRLYVDCRKVAERP
LGEMGSPPAAGFVTLGRLAKARGPRSSSAFQLQMLQIVCSDTWADEDRCCelpASRDGETCPAFVSACSCSSET
PGPPGPQGPPGPPGVKGEKGDHGLPGLQGHPhGHQGIpGRVGLQGPKGMRGLEGTAGLPGLAPGGSRAWQGPgal
VESEDLQGPWGPQDCQGPkGNEERRASRSPLPPSTSL

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FIGURE 5865

GGCACGAGGCTCTGTTCGTGGCGCGGCTTCCCGCGGTCTTCTCTGCAAATGGGGCTCCGTGGCCTAGCGCCCCCGTC
CCCGCCACCCGTGATCGTGCGCCGAGGCCCGCGAGGGGTGCGCGCCAGATCCCACCAGCCAGCAAGCTAAAGCA
TGGCGGCCATCCCCCTCCAGCGGCTCGCTCGTGGCCACCCACGACTACTACCGGCGCCGCTGGGTTCCACTTCCA
GCAACAGTCCTGCAGCAGTACCGAGTGCCCCGGGGAAGCCATTCCCCACCCCCCAGGTCTCCCCAAGGCTGACC
CGGGTCATTGGTGGGCCAGCTTCTTTTTTCGGGAAGTCCACCCTCCCGTTTCATGGCCACGGTGTGGAGTCCGCAG
AGCACTCGGAACCTCCCCAGGCCTCCAGCAGCATGACGCCTGTGGCCTGGCTCGGGACGCCCCGAGGAAGCAGC
CCGGCGGTCACTCCAGCACAGCCAGCGCTGGGCCCCCGTCTTGACCTGAGCGGTTACCACCAGCCCCAGGCCTGC
GGAGGCGCTAGTCCACCAGAGCCCCCTCCCCGCCCCCTCTCCCCACTCCGCATCCCTCGCCCCCTCCCCACCTCCC
ACCCCCACCCTGTAAACTAGGCGGCTGCAGCAAGCAGACCTTCGCATCAACACAGCAGACACCAAAAAACAGTG
AGAGCCCCGCTCTCTACCGCCCGCCCCAGCACTCGCTAGCTTTCCTGACACCTGGAACTGTGCACCTGGCACCA
AGCGGAAAAATAAATCCAAGCAGCCAGTAGCCCCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5866

MAAIPSSGSLVATHDYRRRLGSTSSNSSCSSTECPGAIPHPPGLPKADPGHWWASFFFGKSTLPFMATVLESA
EHSEPPQASSSMTACGLARDAPRKQPGGQSSTASAGPPS

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FIGURE 5867A

TGCTCACCTCTGACAGCCAGACAAGGGCTGTGCTCAGGGGCGAGCTCGGCTGGGCACACAGTAGGTGCTTTAGCGG
ACAGCACTGAGGCCCCCAGCAAGAAGCCC**CAT**GAGCTCCTCCCCCTCCCGCAGTGCCGCCGACATCTACATCCGGG
AGTATTTCCACAGCCACGTACGCGGCGGCCACCCGAGGGCCACTCCTCTCCGTGTGATGTACACGGACCGGGCCG
TGAGCCAGACGGACCCAGTCACGCTGCAGTACTGTTGCCTGACCGACGACCGCCAGGCTTTCCGCCCCCCACAC
GGGCAGAGCTGGCGCGGCACCGCGTGGTGGTCACCACCCTCCAGGCCGTGAGCTCAGGGTGCCGGTCCGGCT
TCTTCTCCACATTCTCATCGATGAGGCGGCCAGATGCTGGAGTGCGAGGCCCTCACCCCGTGGCCTATGCCT
CGCACGGCACCCGCCTCGTGCTGGCGGGCGACCACATGCAGGTACACCCCGGCTGTTCAGTGTGCCAGGGCCC
GGGCGGCCGAGCACAGCTGCTGCACCGCCTCTTCTGTGCTACCAGCAGGAGACTCACGAGGTGGCGGGCAGA
GCCGCTGGTCTTCCACGAGAACTACCGCTGCACGGACGCCATTGTACAGTTCACTCGCGGCACCTTCTACGTGG
CCAAGGGCAACCCCATCCACGCCAGGGGCAAGGTTCCGCCCCACCCCGGCACTACCCGCTCATGTTCTGCCACG
TGGCGGGCAGCCAGACCGGGACATGTCCATGGCGTCTGGCTGAATCTGGCTGAGATTGCGCAGGTGCTCGAGA
AGGTGACGAGAGCCTACAACACCTGGCCCAGCTGCTGGGGCGGCCGCGAGCAGAGGTGCATCTGTGCTGTTTCCC
ACGGTGCCAGGTCACTGCACTGAGGCAGGAGCTGAGGAGGCGGGACCTAGGCCAGGTGTCTGTGCGCAGTTTIG
AGATCCTGCCAGGGCGGCAGTTCCGGGTGCTGGTGTCTCAGCACTGTGCACACCTGCCAGAGCCTGCTCAGCCCTG
GGGCACTGGCCCCCTGAGTTCTTACCGACGCCCGGTGCTCAACACCGTCTTGACCCGCGCCAGTCCCAGCTGG
TGGTAGTGGGGGACGCCGTGGCCCTCTGCTCCTTCGGGGCCTGCGGCAAGCTCTGGGAGAGCTTCATCCGTGAGT
GCGTGAGCGGCACAGTGTCTGCCCCGAGGGCCTGTCCATGGAGCAGGTGAGCAGGGTGTGGCGCAGAGACGGC
GCTGGCCTCCCCGAGGCACACAGGCTGGGGCAGCGGGAACTGGGAGGCTGCCCCAGGCCAGTAGGGGACCTGG
CCGAGGAGCAGGCGGCTGTGGTGACGGCCATGGTGAAGGCAGAGCCGGGAGATGAGGCTCTGAGCCCAGCATCCC
GTGACATCACGGCAACCACAGCGCAGACGGAGGTGCGGCAGCACCAGCAGGAGACGCAGTGAAGGAAGACGTGG
TGCCCCGGGCGCTGTGCGGCAGGAGCGGCTGCTGCAGCGGGCGTGAGTCCACGGAGGCTGAGGATGCAGAGGCTG
ACTTCTGGCCGTGGGACGGGGAGCTCAACGCTGACGACGCCATCCTACGGGAGCTTCTGGACGAGAGCCAGAAGG
TGATGGTGACCGTGGGGGAGGACGGGCTGCTGGACACTGTGCGCCAGGCCCGAGTCCCTGCAGCAGGCCCGGCTGT
ACGAGAACCTGCCCCGGCTGCGCTACGGAAGCTGCTGCACGCGGAGCCCGAGCGGTACCGCCACTGCTCTTTCG
TGCCAGAGACCTTCGAGCGGGCGTCAGCCATCCCGCTGGACGATGCCTCCTCGGGCCCCATCCAGGTACGGGGCC
GCCTGGACTGTGGGATGGCCTTCGCCGGGGATGAGGTGCTGGTGCAGCTCCTTTCCGGGAGACAAGGCGCCCCGAGG
GGCGGCTTCGGGGCCGCTGCTGGGCGTGTGAAGAGGAAGAGGCACGAGCTGGCGTTTGTGTGCCGCATGGACA
CGTGGGACCCGCGCATCATGGTCCCATCAATGGTCCGTGACCAAGATCTTCGTGGCCGAGCTGAAGGACCCAT
CGCAGGTCCCCATCTACAGCCTCCGGAAGGGCCGGTGCAGCGTGTGGGGCTTGAGAGGCTCACCGCCGAGGGCC
GGCACAGCCGGCTCTTCTGGGTCAAATTGTCTGTGGCGGCAAGGCTTCTACTACCCGCTGGGCATCGTCCGGG
AGGTGCTGCCTGAGGCCAGCACCTGGGAGCAGGGCCTCCGCATCCTCGGCTGGAGTACAGCTTGAGGGTGCCCC
CGTCGGACCAGGCCACCATCACCAAGGTGCTGCAGAAATACCACACGGAGCTTGCCCGGGTTGCCGGCCGCCGAG
AGGACTGCCGCGCCTTCTTGACCTTCACTGTGACCCCCAGGGCGCCTGCAACCTCGATGATGCCCTCAGTGTC
GAGACCTGGGTCCAGGTGCGAGGTGGCTGTGCACATCACTGATGTGGCCAGCTTCGTGCCCAGGGACGGGGTGC
TGGACGTGGAGGCGGAAGGCAGGGCGCTGCGTTCTATGCCCCCGGCAGGGAGCCAGTGCCCATGCTGCCGGCCA
GCCTCTGCCAGGACGTCTCAGCCTCCTGCCTGGCCGGGACCGCCTGGCCATCTCCCTGTTCTCTACCATGGAGA
AGGCCAGTGGCCAGCTGAAGAGCCTGCGCTTTGCACCTCCGTGGTCCAGTCTGACCGCCAGCTGTCTACGAGG
AGGCGGAGGAGGTGATCAGGCAGCACCCGGGTGCCGGCGTGAGCTGCCGGCCCGCTGGACTCCGTGGACGCCCT
GCGTGTGGCCGCTGCTACTTCTCTCGGCTGCTGCGCCGGCACCGCCTGCGGTCCGACTGCTTCTATGAGCAGC
CGGACGAGGACGGCACCCCTGGGCTTCCGCGCGGCCACATCATGGTGAAGGAGTACATGATTCAGTTTAATAGGC
TCGTGGCTGAGTTCTGGTGGGCAGGAGTGCACGCGGACGGTACGCCTCTGCGGTGGCAGCCAGCACCCCGCA
GCCAGCAGCTCAAGGCCCTGTGTGAGAAGCATGGGGACCGGGTGCCCTGTCACTGCACCTCGGCCACCACTGC
ACGGCGGGGGGGCAGTCCCCCGACACGCGGCTGCACCTCCTGGCCTCCCTCTGGAAGCAGGTCCAGTTTGCTG
CCCCACCCAGGACTACGAACAGATGGTGGACTTGGTCACCACGGACGACATGCACCCATTCTGGCTCCTGCAG
GCCGCGACCTCCGCAAGGCCCTGGAGCGCTCGGCGTTTCGGCCGCTGCGCCCGGGGCCACCAGCAGAGGGCGGCC
ACTACTCGCTGCAGGTGGACTGGTACACGTGGGCCACCTCGCCCATCCGCAGGTACCTGGACGTGGTGTGTCAGC
GGCAGATCCTGCTGGCGCTGGGCCATGGGGGCTCTGCCTACTCTGCCAGGGACATCGATGGGCTCTGCCAGGCCT
TCAGCCTCCAGCACGCACTTGCCCAGAGTATCAGCGGGCGGCGCGCAGCCTGCACCTGGCCGTGACGTCAAGG

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FIGURE 5867B

CCCAGCCTCTGGACAAGCTGGGCTTCGTGGTGGACGTGGAGGCGGGCTCCCGCTGCTTCCGGCTGCTCTTCCCCA
GCAACCGGGAGACGCTGCCTGACCCCTGCCCGTCCCTACGGCTCCCTGCAGCTGGCCGAGCACCCCCACGCC
TGGCAGGCGCGCCGGGCTGCGGCTCCTGTGGCGCGCGGTGTCTACTCAGCGCAGGGATCCAGCCCGCCCTGC
CACTGCCTGGCACTGTGCCGACCCACACACCCCTGGCCGTGGAGACGGCCCTGTGGAAGCAGCTGCTGGAGCTGG
TGGAGCTGCAGCGCTGGCCGAGGCGGCTGCTCTCATCCAGGAGAAGGGCGAGGCGTCCCAGCGCGGGAGCTGG
TGCAGGTGCAGCGGAGCCACTGTGGCCATTTCCTGGAGGTGGCCCGGAGCTGGGCAGTGGGGACACCCTGCAGG
TGCAGCTCGGCACCAGCCTGCAGCACGGCTTCCTGGTACCAGGCCCTCAGCTCTGGACGGTGGCACCGGGCTTCA
GCCTCTGCCTGGAGCAGTGGAGCGGCCCGGAGACTGCTTCTCAGGCCGTGTGTACCGGGCCCCGAGGGACCGGT
ACCGCGACGTGGATGAGTACGCTGCGTGTGGGAACATTCTGCGCCCTGGAGTCGGCCACCGGCGCGGTGGCCG
AGAATGACTCCGTACACTTCAGCACCTGAGTGTCTCTGGGAGGCGTCACGGACGCCGAGGGGACGTGCAGG
GCGCCTTCCGCTGAGGCGCGCTTCCTCGAGGAGAAGTGTGCCGACATCAACTTCAGCTGCTGTACTCTGCA
TCCGGCTCGAGGGGCTGCCGCTCCACGGCCAGCCACGCCCTGGGCCAGCAGCTCGGCCCTGGCCTGAATG
TTGACCCCGGCACGTATACCTGGGTGGCCACGGGCAGACGCAGGACTGGGACCAGGAGCGCCGGGCAGACCGGC
AGGAGGCTCCAGACGGGTGCACCTCTTCGTCCACCACATGGGCATGGAGAAGGTTCCGGAAGAGGTGCTGAGGC
CGGGCACCTGTTACCGTTGAGCTGCTGCCCCAAGCAGCTTCCTGATCTCCGCAAGGAGGAAGCCGTGCGTGGAC
TAGAGGAGGCGTCCCGCTGGTCAACAGCATCGCACTGGGCGCGCTGTCCCGCAGCCCTCTGCAGAGTGATCC
CCAGCAGGTTCTGAGCGGCAGACCTACAACATCCCGGAGGCGCCACAAGCTGAACCCAGCCAGAACGTGG
CGGTACAGGAGGCTCTGGAGAAGCCTTTCACGGTCATTACAGGGCCACAGGTACAGGAAGACGATCGTGGGCC
TCCACATCGTATTCTGGTTTCATAAATCAAACCAGGAGCAGGTGCAGCCCGAGGCCCCCCCCGTGGGAGAAGC
GGCTGGGGGGTCCCTGCATCTTGTACTGCGGCCCTCCAACAAGTCGGTGGATGTCTGGCAGGACTGCTCCTGA
GAAGGATGGAGCTGAAGCCCTCCGTGTGTACAGTGAGCAGGCTGAGGCCAGCGAGTCCCAAGTCCCGGTGTGG
GCAGCAGGAAGCTGCTCAGGAAGAGCCCCGGGAGGGGAGGCCGAACAGAGCCTCAGGAGCATCACCTGCACC
ACCGGATCCGGCAGGCCCCCAACCTTACTCGTCGGAATCAAGGCCCTTGACACCCGGCTGCAGAGAGGGGAGC
TCTTCTCCAGGGAGGACCTGGTCTGGTACAAGAAGGTCTTGTGGGAGGCTCGGAAGTTCGAGCTGGACCGCATG
AGGTATCTCTGCACCTGCTCCTGTGCAGCCTCTGCCAGCCTCAAATCCTGGACGTGAGGCAGATCCTTGTGG
ACGAGGCAGGCATGGCCACGGAACCTGAAACCTCATCCCCCTGGTGCAATTCCACAGGCCGAGAAGGTGGTTC
TTCTCGGAGACCACAAGCAGCTGCGGCTGTGGTCAAGAATGAGCGGCTGCAAAACCTGGGTCTGGACCGTCTC
CCTCTGTGGCTTCTACAAGAGCAAGCTGAAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCTGGGCCACG
CTGGCAAGGAGAGCTGCCCTGTCTCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGACG
AAGGGAATGAGAATCCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACCAGCAGCTGACCCTGG
GGAGGACCGTAGAGCCCCAGGACATCGCCGTCTCACGCCCTACAACGCGCAGGCCTCTGAGATCAGCAAGGCC
TTCGGCGAGAGGGCATCGCCGGGTGGCCGTGTCTCCATCACCAGAGCCAGGGGAGCGAGTGGCGCTATGTGC
TGGTGAGCACCGTCCGCACCTGTGCCAAGAGCGACCTGGACCAGCGGCCACCAAGAGCTGGCTCAAGAAGTTTC
TGGGCTTCGTTGTGGACCCCAACCAAGTGAATGTGGCTGTACGCGGGGCCAGGAGGGGCTCTGCCTGATCGGAG
ACCACCTCCTTCTGCGCTGCTGCCCCCTCTGGCGTAGCCTCCTGGACTTCTGCGAGGCTCAGCAGACCCTCGTGC
CTGCCGGCCAGGTGCGCTCTGCAGGAGGCCAACTATGCCTTCTCTGAAGAGCCCTCTCCACCTGCAAGGTGCCAG
GACTGGGAGGGAAGTCCAGGGCCCCCCCCACCTCCCCACCACCTCCGCCATCAGCCTGCCTGGGCCAGCCTGC
CTCCTGGCCTCAGGATCTCCCTGGGGCAGGAAGTGGGTGGACTTGGAGGAGGAACGGCAAGGGCCGGTCCCCACA
CTCTTGCTCCTCTGGGCATCTGGGGACAGGAACACCTCTCAGGGTGGCCAAGAGGGGCTTCTTGGGACCACTG
CAAGGAAGTTCTGCTGTCCCTGGGAAGTCTCAGAACCAGGAAGGAACCTGTGGAGGCTGCCCTTTGACCTTTG
GACGCCACCTGTAATCACTCTGGATGGTGTCTGTGGAGTTTCAAGTTTATTTCTATTTAAATGAATAAAGCCA
GCATCCTGCCGGGCGTGGTGGCTCACGCCATAATCCAGCACTTTGGGAAGCCGAGGCGGGCAGATCACCTGAGG
TCAGGAGTTCGAGACCATCCTGGCCAAATGGTGAACCCCGTCTCCACTAAAAATACAAAATTAGCTGGGCGTG
GTGGCGGGCGCTGTAATCCAGCTACTTGGGAGGCTGAGGCAGGAGAAATCGCTTGACTCCAGGAGGCGCAGGCT
GCAGTGAGCTCTGATGGTACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCTGTCTTAAAAAATAAACA
AACAAAACCAGCATCTGTTACTGGAACAGAGACCTCAGCCCAAGCTCAGGACAAGGAGGCTCCCTGGGAGAGGG
GGCCTTCTCCACCATCACCGCTGTGTCTTCAAGGGCTGCTGGAGGGCAGCCCAAGCCAGGGGCCACCC

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FIGURE 5867C

GCCCCACCCACCCACCCACCCCTCTGAAATGTGAAAAGCCTGCACTCTTCCTGTGGGCTGCGCAGTGGGCTCG
GGGGTTGGGGGGTGCCGGGGCGATGCTTCCACCCTGGACTGAGTGTTCCGGGGCAGCCTGCTCGGCTGTATGTTTC
TCGCACGCTCACCCGCTTCAGTGCGGCTCTGTCCCTGCTGCCGCCTCCAGTCCTGAGGGAGGGGCTTGCCCCACC
TTCACATTCCAATTTTATATCTTTGAATTATGTGATTAGATATTAATTTAATGAT

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FIGURE 5868

MSSSPSRSAADIYIREYFHSVSGGHPEATPLRVMYTDRLPSQTDPTLQYCCLTDDRQAFRPPTRAELARHRVV
VTTSQARELRVPVGGFFSHILIDEAAQMLECEALTPLAYASHGTRLVLAGDHMQVTPRLFSVARARAAEHTLLHR
LFLCYQQETHEVARQSRLVFHENYRCTDAIVSFISRHFYVAKGNPIHARGKVPPHPRHYPLMFCHVAGSPDRDMS
MASWLNLAEBIAQVVEKVQEAYNTWPSWGGGREGRCICVVSHTGAQVSALRQELRRRDLGQVSVGSFEILPGRQFRV
VVLSTVHTCQSLLSPGALAPEFFTDARVLNTVLTRAQSQLVVGDAVALCSFGACGKLWESFIRECVERHSVCPE
GLSMEQVEQQAQRRRWPPRGTOAGAAGNWEAAPEPVGDLAEEQAAVVTAMVKAEPGDEALSPASRDITATTAQT
EAAAAPAGDAVKEDVVPAGACAAGAAAAAGVESTEADAEADFWPDGELNADDAILRELLDESQKVMVTVGEDGL
LDTVARPESLQQARLYENLPPAALRKLLHAEPERYRHCSFVPETFERASAIFLDDASSGPIQVRGRLDGMAFAG
DEVLVQLLSGDKAPEGRRLRGRVLGVLKRKRHELAFVCRMDTWDPRIMVPINGSVTKIFVAELKDPSPQVPIYSLRK
GRLQRVGLERLTAEARHSRLFWVQIVLWRQGFYYPILGIVREVLPEASTWEQGLRILGLEYSRLVPPSDQATITKV
LQKYHTELGRVAGRREDCRFLTFTVDPQGACNLDDALSVRDLGPRCEVAVHITDVASFVPRDGLDVEARRQGA
AFYAPGREPVPMLPASLCQDVLSPGRDRLAISLFLTMEKASGQLKSLRFAPSVVQSDRQLSYEEAEVIRQHP
GAGRELPARLDSVDACVVAACYFSRLLRRHRLRSDCFYEQPDEDGTLGFRAAHIMVKEYMIQFNRLVAEFLVGSE
CTRVTPLRWQPAPRSQQLKALCEKHGDRVPLSLHLGHHHLGGGGSPDTRLHLLASLWKQVQFAARTQDYEOMV
DLVTTDDMHFPLAPAGRDLRKALERSAFGRGARGHQQQGGHYSLOVDWYTWATSPIRRYLDVVLQRQILLALGHG
GSAYSARDIDGLCQAFSLQHALAQSYQRRARSLHLAVQLKAQPLDKLGFVVDVEAGSRCFRLFPNRETLPDPC
FVPYGSLLQAEHPHALAGRPGLRLLWRRRVYSAQGSSPPLPLPGTVPDPHTLAVETALWKQLELVELQRWPEAA
ALIQEKGEASQRRELQVQVQRSHCGHFLEVARELGSGDTLQVQLGTSLOHGFLVPSPLQWTVAPGFSCLCIEHVERP
GDCFSGRVYRAPRDYRDVDEYACVWEPFCALESATGAVAENDSVTLQHLVSWEASRTPQGQLQGAFLRLEAAFL
EENCADINFSCCYLCIRLEGLPAPTASPRPGPSSILGPNVDPGTYTWVAHQQTQDWDQERRADRQEAPRRVHLF
VHHMGMEKVPPEEVLRLPGTLFTVELLPKQLPDLRKEEAARGLEEASPLVTSIALGRPVPQPLCRVIPSRFLERQTY
NIPGGRHKLNPSONVAVREALEKPFTVIQGPPTGKTIVGLHIVFWFHKSNOEQVQPGGPPRGEKRLGGPCILYC
GPSNKSVDVLGALLRRMELKPLRVYSEQAEASEFPVPRVGSRKLLRKSPREGRPNQSLRSITLHHRIRQAPNPY
SSEIKAFDTRLQRGELFSREDLVWYKKVLWEARKFELDRHEVILCTCSAASASLKILDVRQILVDEAGMATEPE
TLIPLVQFPQAEKVLLGDHKQLRPVVKNERLQNLGLDRSLFERYHEDAHMLDTQYRMHEGICAFPSVAFYKSKL
KTWQGLRRPPSVLGHAGKESCPVIFGHVQGHESLLVSTDEGNENSKANLEEVAEVVRITKQLTLGRTVEPQDIA
VLTPYNAQASEISKALRREGIAGVAVSSITKSQSEWRYVLVSTVRTCAKSDLDQRPTKSWLKKFLGFVVDPNQV
NVAVTRAQEGLCILGDHLLLRCCPLWRSLLDFCEAQTLPAGQVRVCRRPTMPS

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FIGURE 5869

ATGGACGAGGAGAGCCTGGAGTCGGCCTTGACACCTACCGTGCGCAGCTGCAGCAGGTGGAGCTGGCCTTGGGC
GCCGGCCTGGATTCTGTCTGAGCAGGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACC
GAGGCCAGCCTGGTGTCTGTCTCAGGAAGAGCAGCTTGTGGCCGCGCTGGACGAAGAGCGCCCGGGCCGCCAGGAA
GATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCACCAGCAGCGGCCCTGGGTCCGGA
TCAGAGACCGTTCTTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAGGAC
GAGGAAGAGCTGAGTGGGACAAAGGTGAGCGCGCCCTACTACAGCTCCTGGGGCACTCTGGAGTATCACAACGCC
ATGGTGGTGGGAACGGAAGAGGCGGAGGATGGCTCGGCGGGTGTCCGTGTGCTTTACCTGTACCCCACTCACAAG
TCTCTGAAGCCGTGCCCGTTCTTCTGGAGGGAAAGTGCCGCTTTAAGGAGAACTGCAGGTTCTCCCATGGGCAG
GTGGTCTCTCTGGATGAGCTGCGCCCCCTTCCAGGACCCAGACCTGAGCTCCCTGCAGGCCGGCTCTGCGTGTCTG
GCCAAGCACCAGGATGGCCTCTGGCACGCAGCACGCATACCGATGTGGACAACGGCTACTACACAGTCAAGTTT
GACTCGCTGCTGCTGAGGGAGGCCGTGGTGGAGGGGGACGGCATCCTGCCCCCACTGCGCACAGAGGCCACAGAG
TCCGACTCAGACAGCGACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGGTCAGATGCTGTGGACTCTGGG
ACCTGCAGCTCTGCCTTTGCTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTACCAAGATGGGC
TATGAGTTTGGCAAGGGTTTGGGCCGACACGCGGAAGGCCGGGTGGAGCCCATCCATGCTGTGGTGTTCCTCGA
GGGAAGTCGCTGGACCAGTGTGTGGAGACCCTGCAGAAGCAGACCAGGGTTGGCAAGGCTGGCACCACAAGCCC
CCCAGGTGCCGGGGAAGAGGGGCCAGGCCTGGGGGCCGCCAGCTCCTCGGAATGTGTTTGACTTCCTCAATGAA
AAGCTGCAAGGTCAGGCTCCTGGGGCCCTAGAAGCCGGGGCGGCCCCAGCGGGGAGGAGGAGCAAGGACATGTAC
CATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGAGAAGATCGAGCGAACCCAG
CGGGACATCAGGAGCATCCAGGAGGCTCTGCCCCGAACGCTGGCCGGCATAGCGTGGCGTCAGCCCAGCTGCAG
GAGAAGCTGGCAGGAGCCCAGCGCCAGCTGGGGCAGCTCCGGGCTCAGGAAGCCGGCCTGCAGCAGGAGCAGAGG
AAGGCAGACACCCACAAGAAGATGACTGAGTTCTTAG

6359/6881
FIGURE 5870

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSSLLAALDEERPGRQE
DAEYQAFREAITTEAVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYSSWGTLEYHNA
MVGTEEAEDGSAGVRVLYLYPTHKSLKPCPFFLEGKCRFKENCRFSHGQVVSLELRFQDPDLSSLQAGSACL
AKHQDGLWHAARITDVDNGYYTVKFDSLLEAVVEGDGILPLRTEATESDSDSDGTGDSYARVVGSDAVDSG
TCSSAFAGWEVHTRGIGSRLLTKMGYEFKGGLGRHAEGRVEPIHAVVLPRGKSLDQCVELQKQTRVGKAGTNKP
PRCRGRGARPGGRPAPRNVDFLNEKLQGGAPGALEAGAAPAGRRSKDMYHASKSAKRALSLRLFQTEEKIERTQ
RDIRSIQEALARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQQEQRKADTHKKMTEF

6360/6881
FIGURE 5871A

CGCTGCCGGTGCCGCACCCGCGCCCTCTGCCGCCGCCGCCGCCGCCGCCGGGTCTCCAGGCTGAGGAGTGCGT
CGGCCGCTGCCAGCAGCGCCGGAATCGGGGAGCGGAGCCGCGGAGCCGGCGGGAGGGCGGGCGGGCGGGCGGA
CGGGCAGAATAGCCTAACATGGCAGACCAGAGACAGCGCTCACTGTCTACCTCTGGGGAGTCATTGTACCACGTC
CTTGGGTGGACAAGAACGCAACCTCAGATGACATTAAAAAGTCTATCGGAAGCTTGCCCTGAAATATCACCCC
GACAAGAACCCCGACAACCCGGAGGCCGCGGACAAGTTAAGGAGATCAACAACGCGCACGCCATCCTCACGGAC
GCCACAAAAGGAACATCTACGACAAGTACGGCTCGCTGGGTCTCTACGTGGCCGAGCAGTTTGGGGAAGAGAAC
GTGAACACCTACTTCGTGCTGTCCAGCTGGTGGGCCAAGGCCCTGTTTGTCTTCTGCGGCCTCCTCACGTGCTGC
TACTGTGCTGTCTGTCTGTCTGTCTTCAACTGTCTGCTGCGGAAGTGTAAAGCCCAAGGCGCTGAAGGCGAG
GAGACGGAGTTCTACGTGTCCCCGAGGATCTGGAGGCACAGCTGCAGTCTGACGAGAGGGAGGCCACAGACAG
CCGATCGTCATACAGCCGGCATCCGCCACCAGAGACCACCAGCTCACAGCCGACTCCCACCCAGCTACCACACT
GACGGGTTCAACTAAATCCAGGAGGAGCTGTGGTCAGAGGAGGAGCCGGCGCCTGGCCACGCCAACCTTAGAATC
ATGAACGTGAGTCACAGAGATGGGAAGGCAGCCTCCTGCCTGCCCTGGCCTTGCTGGGGCCCCCTCCTGCCTCCAC
GCCCCACCCAGCGTCGACCCCTTGACCCACGAAGTGCCTAGCATGCAGTATTTAAAGCAGTGTAGCTACGGTCTTCT
GTTTTTTTCCCTTTTTTAATAGCATGTATGGGGTCTGTTCATGTCTGTGTTGTGGACATTCCGCGCATGACC
GCGTGAACGTGCACGGTGGAGCTGCCTCAGGGCTGTGCGTCAGGTTGGTCCAGTGAGGGGTGACTGCACGCCGTCA
GGTGGGCGAGGAGAAGGGGGGCTGCCCCCTTCTACCTGTGCTTGAGGGGCCGAGGCAGGTGCTGCCTGGCAGA
GCTGTGTTACCGTCTTGGCCTCGGGGTCTGGTCCACACTCTGTGCTCCAGCCTTGAGGCTGCAGTAGGACTCTG
ATCTCACCTGCCAGAAGAGAGGCGGGGCCGCTCCTCCTGGCGTCACCGCGTCACTGTCACTTCTTGCTGTCTG
TGCTGGGCATGGTTGGCTTGGGGTCTGTGTTTTCTGGGCTTGTTGGCAGGGTTTCTCCCGTGGGAGAATTG
TGTGGAAGCATAGGAGGCCCTTCCGAGGTTGACACCGTGTCTCCGCGGTGTTTCTCGCTGGTCTGCTCGT
GTGTGGACGTGCCGTTCTGGTTCTCGGAGGTGTGCTTCCCGGTGTTGGGGTATTGTCTGTGTTCTGTCAC
TTTTCCCGGGCTCTGAGCTGGATTGATGGGGCCAGTCTCCCCCTCCCATCTTGAGGTCGTTCTCCACATTCTT
CCAGCACACCTGTCTTTCCATAGCCCTTTTTGGACCTTTAGAACCACAGATGATAGGACCAGCCCAATGAGCCA
CAGTCAGAGAGTAGATTGTGCATGTGTGAGCACCAGCTACTGGGGACGGGGGCTCTCCACGACCCCTCCTCCT
GTGTTTGCCAGAGCTCCCATCTGCCCCACTCGCCTTTGCCCCGTCATCGATGATTACGGCAGAGCCAGATTCTGTT
AGGTCCCTGGAGGAAGGACTGACTGGACCAGAGGACCCCTCTGGCTCAGGAGGGTTGGGTCCCTGGGAGGCCGGC
AGCCAGGCCACAGAATCCACACGTGGACCATTGTGGTCCCTGGGAGGCCGGCAGCCAGGCCACGGAATCCACAC
GTGGACCATTGTGGTCCCTTGGGAGGCCAGCAGCCAGACTACGGAATCCACATGTGGACCATGGGAAGTCAGTC
TCTTGCGTGTCTAGACCTTGTGGGTGGCGCCCTGCATAGGGGAGCAGGGGGAACGGGTCTGATGTCCCTGTGCT
GGCTGAGGGCTCAGAGCTGCCGCACTCCGTAGCTCATGGATGTGCTGGGCCTGCCTTTGGCGCCATGCTGCAG
ACTCCAGTGGGCCTGGTTTCTGCAGAATGTCCATGGTGGCCGCTGCAGAGTTGCAGAGGTCCCTGTAGAGATAAA
GCTGAGGAGGAGGCTGTGTGTGATGGCTCTGGCTCGGACCAACCAGATGAGCCTCCTGAAGCCCCCTTCCCTGCC
TGCCTGCTGACCCGTGGCCCCAGCTCACTCATTGCCCTCAGCAGCCACCCGAGGCTGTGCAGAAGGGTAGGTTCA
GGTTGACCAGGAAGCTGCCAAAAGGGACATGGATATGAGGATACATCTGGACGTGCTTAGGAACAGGGTGTGGT
TGAGGGCCCCCAGCTGACCCCTACTGCAGATCCGCATGTGGACCATGAGCCGGCTGCCAGCACTAGGTCTGGGC
AGCTTTGTTTGTCCCACTTTTCTTTGTTTCTTCTCACTAAAATGATCACGAAGACCTTTGACAAGAGGAGAGATA
TGCAGTGTGATATTAAATTAGAAATAATTTATCAAAATCAGACCTCTCCTAAAAGAATAAGAAATTCATTGTTTG
GCCCCATCTGAAAGGTGAGGTGGCGAGACAGTGGGGTGCCTCCGTGCCGCTTCGTGCAGCAGCAAGTTCAGCCTG
AGATGCTGGCTGTACTCAGCCTTTGCAATTTTTGTAGATGTAGCTTAGGACGTGAGTTATTTTTCCGCAGACTGG
CCAAGAGCCAGGTTCTAAGCTTGGACCTAAGGTAGAAAGCTGCCCATCGGGGGCCCTAGCTCAGCCCCACCAGGC
CCTCTGTTGGGCTGCACACAGCTCTGTGGCTAGAACACTCCAAGGCCCTTCGGTACCCTACAGAGTGGGCCCCCT
TGCCAGGTGGCTTTTCAAGTTACAGAGTCCAGTGGACCATTTTGTAGAACCATGCAGCTCCCTGCGGAAGGTGGGG
TAGGGTGGGAAAGAGGAGCAGGTCTGGAGGTTTGTGGAACCCAGTCCCTGCAGAATCTGTAAAACCTAATAAAT
CATGGTTGTGGCAATTCTCACGGTGGTGATTGTGATTAGACGACCCCGGGAAGCCCAGACACTCGGGGCTGGA
GTTCTCCCCCTGCCTGACCTAGAAGCAGAACCCTTTTCAGCGCTCTGCCCTGTTGGCTTTAAGGCTTTGTCTTA
ATTTAAGGAAAAAGATCCTCCCGGTTTTATTTCTCTCTTTCTTGAGTGGACTGTTTCCCTATAATTAAAAGAGG
TGGTGAGTCTGGGGCAGCTTCCGCGCTCCCTGTCCAGTGTAAACAGATCAGGACGCCCCCAGCACCCTGCC
TGCTTTTGTGTTGGTGGCAGTGACGGGACCCGACTCCTCACTCTCGGGCCGACACAATGCTGTGAGCAAGTGTGG

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FIGURE 5871B

CCATGGGCACAGAATGTCCCTTTGGACGCCGCTGCTGGGGGCTGCCAGGGGCCCTCTGGGGTCTGCTTTGAGGC
CCGTCCGGTTACAGAGGGGTCGGGGCAGCACTGACTGCTTCCGACCTGCAGGAGGCGTAGGAGCGGCCCTGCGG
GCCCTTTCACGGCAGCTGCTGCTGTATAGATTTGTCTCCACTCAGTGACGTGGGATTTTTTGTCTTCCTTTTGG
CTTTATTTTTAACTGCTTTAGATATTACTGCTCAGTGTTTGTGAACCTTCCTAGTTCTCTATGTTGTTAGTGCA
GCCAGCACCCAGTGGGGACCTACTAGAAAAAGGAAGTGGCATGCACACGTGCCAGCAGGAAAAGCTTCGTCTTC
ACGTCGGCTGCTGCCATCCAGAAGAGGCCCTGGAGCCTCACGCCGTGAGGCTGCTCTCAGGCGTTCTGTTCCGG
GCGAGGCTTGTGCTGCAAGGAAGGGCACCAGCATGCAGGCTGCCACTGGAGGGTCCGGGTGCTGCGGGCAGAGTT
CAGCGCTTGTCCACCCCTCCCTTAGCTCTGACTCAGTGATCCTACTGTGGGGACATCTCGTGAGGGGACACGAAA
TGACTGATCTCACCCCTTCCCAGTATTAGAGCTGTGAACCCCTGTGGCGCAGGACTGGCCTGTGTCTGTTATTT
TGGTTGTAAATCATTCTCCTGTGGAATTGGCAAAAGCTACATTTTTACTGTCCTTACCAGCAACAGTTTGCGTCG
TCACATGCTGTGAGTGTGGGCTGTGGTGTGTCCGTGTGTGTACATATGTGTATATGTATATATCACGCAGCAGGA
GTGTCATTCAIGCTGCTGTCCCTGGTGAAGTGACAAGTACAATTAAAGGTGGCTCTGAAATGGCCTCTGGTTTC
TTGGGAGTCGGGCAGGGACCTGCAGGAGGCTTTCCCAGCAGGTGCACAGAAGGAAGCGCTGAGCCCACTGTGTGC
AGAGGGTGTGTGCCCAGGGCACTGCCACGGCCCCCACCAGCATTGGCCTCTGCTCTGCAGGGTGGGGTGGCCATC
CTGGGGGCTGTGTGTCATGCTCACCTGACCCAGGTGTGTGTCCCGGTGTGAAATCGAGGAGGGGACTGGAAGCCC
TTCCCTGCCTTGAAACATGAAAGCTGATTTTCTGAGCAGCAGATACGGTCAGTGGCAAAGCTGCATCTGAAGGGC
GGCCTGGGAAGGGGCCCTGTGCTGGCCCCGGGTCCGCCCCAGAGGAGTCCACACAGCACCCACCTCCAGAAGGGC
TGGGCCCGGGTCCGTGCAGGCGGCACCTTTTGGTAGAGTTGTTTCCCTGGAAAATGGGGAATGTTTCAAGCC
AGGTGAGGGGGGAAGTTAACTGAAATATGTATTGTTTTTAAAAATCAAATGCACACGCATGGAAGCTGCTTGT
CCATGCACTGGTTTTGTCACTGGCGTCCCTGGAATCCGACCGTGTGGGGTGCAGGCGCTGTCAGACTCCGGCTGA
TCCTGGCTCGAGCACACATCTAAGGGCCAGGCTGGTTCCGCATGGTGATCTCCGTCTTGTATGTCTGAATGTT
GGCCTAAAATAAAGATTACTGTTGTAAAT

6362/6881
FIGURE 5872

MADQRQRSLSSTSGESLYHVLGLDKNATSDDIKKSYRKLALKYHPDKNPDNPEAADKFKEINNAHAILTDATKRNI
YDKYGSGLGLYVAEQFGEENVNTYFVLSSWWAKALFVFCGLLTCCYCCCCCLCCCFNCCCGKCKPKAPEGEETEFYV
SPEDLEAQLQSDEREATDTPIVIQPASATETTQLTADSHPSYHTDGFN

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FIGURE 5873

CTACGGAGTGCATCGGACGTCGAAGCCTAGAGTCTCTGCGTCTTTCCCTCTTCCGCTGCCTCATTCTTTCTCTTC
CTAGCCTTGGTCGTCGCCGCCACCATGAACAAGAAGAAGAAACCGTTCTTAGGGATGCCCCGCGCCCTCGGCTAC
GTGCCGTGGCTGGGCCGGGGCGCCACTGGCTTCACCACGCGGTGAGACATTGGGCCCGCCCGTGATGCAAATGAC
CCTGTGGATGATCGCCATGCACCCCCAGGCAAGAGAACC GTTGGGGACCAGATGAAGAAAAATCAGGCTGCTGAC
GATGACGACGAGGATCTAAATGACACCAATTACGATGAGTTTAATGGCTATGCTGGGAGCCTCTTCTCAAGTGGA
CCCTACGAGAAAGATGATGAGGAAGCAGATGCTATCTATGCAGCCCTGGATAAAAGGATGGATGAAGAAGAAAA
GAAAGACGGGAGCAAAGGGAGAAAGAAGAAATAGAGAAATATCGTATGGAACGCCCCAAAATCCAACAGCAGTTC
TCAGACCTCAAGAGGAAGTTGGCAGAAGTCACAGAAGAAGAGTGGCTGAGCATCCCCGAGGTTGGCGATGCCAGA
AATAAACGTCAGCGGAACCCACGCTATGAGAAGCTGACCCCTGTTCTTGACAGTTTCTTTGCCAAACATTACAG
ACCGGAGAGAACCATACTCAGTGGATCCCCGACAACTCAATTTGGAGGTCTTAACACACCCCTATCCAGGTGGA
CTAAACACTCCATACCGAGGTGGAATGACGCCAGGACTGATGACACCTGGCACAGGTGAGCTGGACATGAGGAAG
ATTGCCCAAGCGAGGAACACTCTGATGGACATGAGGCTGAGCCAGGTGCTGACTCCGTGAGTGGACAGACCGTC
GTTGACCCCAAAGGCTACCTGACGGATTTAAATTCATGATCCCGACACACGGAGGAGACATCAATGATATCAAG
AAGGCGCGACTGCTCCTCAAGTCTGTTGCGGAGACGAACCCCTCATCACC CGCCAGCCTGGATTGCATCAGCCCGC
CTGGAAGAAGTCACTGGGAAGCTACAAGTAGCTCGGAACCTTATCATGAAGGGGACGGAGATGTGCCCAAGAGT
GAAGATGTCTGGCTGGAAGCAGCCAGGTTGCAGCCTGGGGACACAGCCAAGGCCGTGGTAGCCCAAGCTGTCCGT
CATCTCCACAGTCTGTGAGGATTTACATCAGAGCCGACAGCTGGAACGGACATTCTGCAAGAAGCGGGTT
CTTCGGAAGCCCTCGAGCATGTTCCAACTCGGTTGCTGTGGAAGCAGCCGTTGAGCTGGAAGAACCTGAA
GATGCTAGAATCATGCTGAGCCGAGCTGTGGAGTGTGCCCCACCAGCGTGGAGCTCTGGCTTGCTCTGGCAAGG
CTGGAGACCTATGAAAATGCCCCGAAGGCTTGAACAAGGCGCGGGAGAACATTCTACAGACCGACATATCTGG
ATCACGGCTGCTAAGCTGGAGGAAGCCAATGGGAACACGCAGATGGTGGAGAAGATCATCGACCGAGCCATCACC
TCGCTGCGGGCCAACGGTGTGGAGATCAACCGTGAGCAGTGGATCCAGGATGCCGAGGAATGTGACAGGGCTGGG
AGTGTGGCCACCTGCCAGGCCGTGATGCGTGCCGTGATTGGGATTGGGATTGAGGAGGAAGATCGGAAGCATACC
TGGATGGAGGATGCTGACAGTTGTGTAGCCACAATGCCCTGGAGTGTGCACGAGCCATCTACGCCTACGCCCTG
CAGGTGTTCCCCAGCAAGAAGAGTGTGTGGCTGCGCGCCGCTACTTCGAGAAGAACCATGGCACTCGGGAGTCC
CTGGAAGCACTCCTGCAGAGGGCTGTGGCCCACTGCCCCAAAGCAGAGGTGCTGTGGCTCATGGGCGCCAAGTCC
AAGTGGCTGGCAGGGGATGTGCTGCAGCAAGGAGCATCCTGGCCCTGGCCTTCCAGGCCAACCCCAACAGTGAG
GAGATCTGGCTGGCAGCCGTGAAGCTGGAGTCCGAGAATGATGAGTACGAGCGGGCCCGGAGGCTGCTGGCCAAG
GCGCGGAGCAGTGCCCCCACC GCCCGGGTGTTCATGAAGTCTGTGAAGCTGGAGTGGGTGCAAGACAACATCAGG
GCAGCCCAAGATCTGTGCGAGGAGGCCCTGCGGCACTATGAGGACTTCCCCAAGCTGTGGATGATGAAGGGGCAG
ATCGAGGAGCAGAAGGAGATGATGGAGAAGGCGCGGAAGCCTATAACCAGGGGTTGAAGAAGTGTCCCCACTCC
ACACCCCTGTGGCTTTTGTCTCTCTCGGCTGGAGGAGAAGATTGGGCAGCTTACTCGAGCACGGGCCATTTTGGAA
AAGTCTCGTCTGAAGAACCCAAAGAACCCTGGGCTGTGGTTGGAGTCCGTGCGGCTGGAGTACCGTGCAGGGGCTG
AAGAACATCGCAAATACACTCATGGCCAAGGCGCTGCAGGAGTGCCCCAACTCCGGTATCCTGTGGTCTGAGGCC
ATCTTCTCGAGGCAAGGCCCCAGAGGAGGACCAAGAGCGTGGATGCCCTGAAGAAGTGTGAGCATGACCCCAT
GTGCTCCTGGCCGTGGCCAAGCTGTTTTGGAGTCAGCGGAAGATCACCAAGGCCAGGGAGTGGTTCCACCGCACT
GTGAAGATTGACTCGGACCTGGGGGATGCCTGGGCCCTTCTTCTACAAGTTTGAGCTGCAGCATGGCACTGAGGAG
CAGCAGGAGGAGGTGAGGAAGCGCTGTGAGAGTCGAGAGCCTCGGCATGGGGAGCTGTGGTGCGCCGTGTCCAAG
GACATCGCCAACTGGCAGAAGAAGATCGGGGACATCCTTAGGCTGGTGGCGGCCGCATCAAGAACACCTTCTGA

TTGAGCGGTTGCCATGGCCGGTCTCCGTGGGGCAGGGTTGGGCCGCATGTGGAAGGGCTCTGAGCTGTGTCTCTC
TTCATTAAGTTTTTATGTCTCGTGTCAAAAAAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 5874

MNKKKKPFLGMPAPLGYVPWLGRGATGFTTRSDIGPARDANDPVDDRHAPPGKRTVGDQMKNQAADDDDEDLND
TNYDEFNGYAGSLFSSGPYEKDDEEADAIYAALDKRMDERRKERREQREKEEIEKYRMERPKIQQQFSDLKRKLA
EVTEEEWLSIPEVGDARNKRQRNPRYEKLTVPVDSFFAKHLQTGENHTSVDPRTQFGGLNTPYPGGLNTPYRGG
MTPGLMTPGTGELDMRKIGQARNTLMDMRLSQVSDSVSGQTVVDPKGYLTDLNSMIPHTGGDINDIKKARLLKS
VRETNPHHPPAWIASARLEEVTGKLQVARNLIMKGTEMCPKSEDVWLEAARLQPGDTAKAVVAQAVRHLPQSVRI
YIRAAELETDIRAKKRVLRKALEHVPNSVRLWKAAVELEEPEDARIMLSRAVECCPTSVELWLALARLETYENAR
KVLNKARENIPTRHIWITAACLEANGNTQMVEKIIDRAITSLRANGVEINREQWIQDAEECDRAGSVATCQAV
MRAVIGIGIEEEDRKHTWMEDADSCVAHNALECARAIYAYALQVFPSKKS VWLRAAYFEKNHGTRESLEALLQRA
VAHCPKAEVLWLMGAKSKWLAGDVPAARSILALAFQANPNSEEIWLAAVKLESENDEYERARRLLAKARSSAPTA
RVFMKSVKLEWVDNIRAAQDLCEEALRHYEDFPKLWMMKGQIEEQKEMMEKAREAYNQGLKKCPHSTPLWLLLS
RLEEKIGQLTRARAILEKSRLKNPNPGLWLESVRLEYRAGLKNIANITLMAKALQECPN SGILWSEAFLEARPQ
RRTKSVDALKKCEHDPHVLLAVAKLFSQRKITKAREWFHRTVKIDSDLGDAWAFFYKFELQHGTEEQQEEVRKR
CESAEPRHGELWCAVSKDIANWQKKIGDILRLVAGRIKNTF

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FIGURE 5875

AAGTCCCGGCCCTGGCTTTGGGGAAGTGCCGCCGAGGCGCCTGCGCACTGCGCCCCGCGCCCCCTCCCCGACT
GTCGGGCCGGACCTTGGAGCGCGCGGGCCGGCGGGCGCGAGTGGCTCGGGAGCGCGGCTGACCCCCAGGCTGT
GGTGAGGGTCTGAGAGCTGGTACCACGGAGCCTGGGCAACCTCCTCCGCCCACCCATGCCACCCCCGCATGAGGC
TGAGAAGCAGATCACAGGGCCAGAGGAGGCGGACCGGCCCTTCAATGTCCAGTCATGATACAGCCTCTCCAGC
GGCCCCCAGCCGCAACCCCTGCTGCCTGTGCTGGTGTGCTGTGCTGTAGCTGCTCCTGGAACCAAGAGCGGCGGCG
CGCGTGGCAGGCCTCCCGGGAGAGCAAGCTGCAGCCCTCCCCAGCTGTGAAGTATGTGCCACGCCAAGTCCTGA
GGAGGTGCAGAGCTGGGCGCAGTCTTTTGACAAGCTGATGCACAGCCCAGCGGGACGCAGCGTGTTCGGGCGTT
CCTGCGGACAGAGTACAGCGAGGAGAACATGCTCTTCTGGTTGGCCTGCGAGGAGCTGAAGGCCGAGGCCAACCA
GCATGTGGTAGACGAGAAGGCGAGGCTCATCTACGAGGACTACGTATCCATCCTGTCCCCCAAGGAGGTGAGCCT
GGACTCCCGTGTGCGGGAGGGCATCAACAAGAAGATGCAGGAGCCGTCCGCACACACGTTTCGACGACGCGCAGCT
GCAGATCTACACGCTCATGCACCGGGACTCCTACCCCCGCTTCCCTCAGCTCTCCCACCTACCGTGCCCTGCTGCT
GCAGGGGCCATCACAGTCCTCCTCCGAGGCCTAGGCCGCCCCAGCAGCACAGACCCCGCGCCTCCTACGGCCG
ACTCTGGGTTCCCTTCAGGTGTTGTTGTGTCGGCAGGGCTGTCAGGGCACATGCCTGGCCGGCTGGGGTCCCCACCC
GCGGAGACGGTCCTAGACCCAGTGGGGAGTGTGTGTCTCCTGGGTCTGCCCACCCGTGGCCAAGCAGGAACTCC
AGGTGCAGGGCGGGCCTCCAGGTGCAGGGCGGGCCAGAAGCCCCCTCATCGGCCCGCAGCTGGCTGGCCCAGTGC
TCCTGGCTGGGGCTCTTGCGTGGTGAGAGTAGGGGTCCCCCAGGAGCCATGCTGGACCCATGAGCCTCGCTGG
GGCCTCCTCCCCAGGCAGCCAATGGGCCCCAGACAAGCCTTTGGTGGGGAACAGAACCTCCGCATCGTGTAGTTT
TGTGACATAAGGAGACCTCCTACTTGAGCTGTCTGTACCCAGAATCAAACACAGAACCTCAGAACCAGATTTAG
GACCTCAGAATCCTGCACTCAAGGTGGCAGGACCCAATTTCTGTTTTATATGTTTCATGAACTTTAAACCTGGAAA
CATGTCCTTACTAGGTGTTTTATCAAAAAAAGTTTTCATATTTATCTCTATCCCTAACCCCCCAAAAATAGGAT
GTCTTATTATTGAAGATATTTTTAAAGC

6366/6881
FIGURE 5876

GGAAAACCGTGTACTATTAGCCATGGTCAACCCACCGTGTCTTCGACATTGCCGTCGACGGCGAGCCCTTGGG
CCGCGTCTCCTTTGAGCTGTTGCAGACAAGGTCCTCAAAGACAGCAGGCTTTCACAGAATTATCCAGGGTTTAT
GTGTCAGGGTGGTGA CTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTGAAGATGA
GAACTTCATCCTAAAGCATA CAGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGATCCCA
GTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGT TGGCAAAGTGAAAGAAGGCAT
GAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTG
TGGACA ACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGGTCATTCTTCTGTAGCTCAGGAGAGCAC
CCCTCCACCCCATTTGCTCGCAGTATCCTAGAACTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCCATGTTTT
CCTTGTTCCCTCCCATGCCTAGCTGGAT

6367/6881
FIGURE 5877

GCTCGATGGTCGAGGCCATCTCCTGGTCCGCCTGGCGGCCATCGTGGCTAAACAGAACAAGTTGAAGTACCTGGG
TTTCCTCCGCAAGCGGATGAACACCCACCTTTCCCGAGGTCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCT
GGCGGACCGTGCGAGGTATGCCGCCCCACAAGACCAAGCGAGGCCAGGCTTCTCTGGAACCGCCTCAAGGTGTTTG
ACCGCATCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCT
ACAAGAAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTG
GAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCC
GAGAAGAACATGGAGAAGAAAATTGACAAATACACAGAGGTCTCAAGACCCACAGACTCCTGGTCTGAGCCCAA
TAAAGACTGTTAATTCCT

6368/6881
FIGURE 5878

GCATCCCACGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCTACA
AGAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAG
GAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAG
AAGAACATGGAGAAGAAATGAGCCCAATAAAGACTGTTAATTCCTCATGCGTGGCCTGCCCTTCCTCCATCGTCG
CCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGCGCCACAGGCAGCCTCGGACACAGGAAGCTGGGAG
CAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAACTGTGCAGGTGTCATTTATC
TATGACCAATAGGAAGAGCAACCAGTTACTATTAGTGAAAGGGAGCCAGAAGACTGATTGGAGGGCCCTATCTTG
TGAGCGGGGCGTCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGCAAGGACTTGGGGAC
AGTATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGCACAACCAAGGGGT
ACAGGCATCGCCCGTGCTCACCTGTATTTTGTAAATCAGAAATAAATTGCTTTTAAAGAAAAAATAAAA

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FIGURE 5879

ACGAGGGGAAGAAAGGAGTTGGGGCAAAACAGGAGGCGTTTCCTACCCGCATACATCCCCGTCCCCGAGACACC
CAATCCCCCACCACCCAGCCTGCCCCGCGCTCCCGCCCCAGCTCCTCGCCCTGGGGACAGCTGGCAGCCCCGCG
CGGACCAGACACAAAGCCGATCAATCCCGGAGGCGTGGGGGCGGAGGGACGACCCGCGGGGCTTTCCCGGGCGC
TGCTCTCCTCTGCTGCCCCCTCGCTAGGACCCGGCGGACGCCTCGTCTGGTTTTACGCCCTCTAGCCCCCTACC
CCCACACCCCCAAAACAGAACAGACCCCCATCCCTGGGCTGGAGGACCCGCTCTTGGCAGCCAGCTGAGAAGGC
GCCCCGGGGAGGGGAAACTGACATCCCATCTAGAGCCGTCCCTCCTCTTCCTCCCTCCCGACTCTCTGCTCCT
TTCCCGCCCCAGAAGTTCAAGGGCCCCCGGCTCCTGCGCTCCTGCCGCGGGACCCCTCGACCTCCTCAGAGCAG
CCGGCTGCCGCCCGGGAAAGATGGCGAGGAGGAGCCGCCACCGCTCCTCCTGCTGCTGCTGCGCTACCTGGTGG
TCGCCCTGGGCTATCATAAGGCCTATGGGTTTTCTGCCCCAAAAGACCAACAAGTAGTCACAGCAGTAGAGTACC
AAGAGGCTATTTTAGCCTGCAAAACCCCAAAGAAGACTGTTTCTCCAGATTAGAGTGGAAGAACTGGGTGGA
GTGTCTCCTTTGTCTACTATCAACAGACTCTTCAAGGTGATTTTAAAAATCGAGCTGAGATGATAGATTTCAATA
TCCGGATCAAAAATGTGACAAGAAGTGATGCGGGGAAATATCGTTGTGAAGTTAGTGCCCCATCTGAGCAAGGCC
AAAACCTGGAAGAGGATACAGTCACTCTGGAAGTATTAGTGGCTCCAGCAGTTCCATCATGTGAAGTACCCTCTT
CTGCTCTGAGTGGAAGTGTGGTAGAGCTACGATGTCAAGACAAAGAAGGGAATCCAGCTCCTGAATACACATGGT
TTAAGGATGGCATCCGTTTGCTAGAAAATCCCAGACTTGGCTCCCAAAGCACCAACAGCTCATACACAATGAATA
CAAAAAGTGAAGTCTGCAATTTAATACTGTTTCCAACTGGACACTGGAGAATATTCTGTGAAGCCCGCAATT
CTGTTGGATATCGCAGGTGTCCTGGGAAACGAATGCAAGTAGATGATCTCAACATAAGTGGCATCATAGCAGCCG
TAGTAGTTGTGGCCTTAGTGATTTCCGTTTGTGGCCTTGGTGTATGCTATGCTCAGAGGAAAGGCTACTTTTCAA
AAGAAACCTCCTTCCAGAAGAGTAATTCTTTCATCTAAAGCCACGACAATGAGTGAAAATGATTTCAAGCACACAA
AATCCTTTATAATTTAAAGACTCCACTTTAGAGATACACCAAAGCCACCGTTGTTACACAAGTTATTAACTATT
ATAAACTCTGCTTTGTCCGACATTTGCAAAGAGGTACACGAGGAAATGGAATTGGTATTTTCAATTTTCA
TGACTACTAAGTCACTGAAGTGGTATTTTAAACAAATAGTTCTGTCGACACCTAAAATATAATCTGGCTTCTT
GTGTCTGGACTAAGTTAAAAGAATTTAAATACTTTGTAAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5880

MARRSRHRLLLLLLRYLVVALGYHKAYGFSAPKDQQVVTAVEYQEAILACKTPKKTVSSRLEWKLGSRVSFVYY
QQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQNLEEDTVILEVLVAPAVPSCVPSSALSGTV
VELRCQDKEGNPAPEYTWFKDGIRLLENPRLGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNSVGYYRC
PGKRMQVDDLNISGIIAAVVVVVALVISVCGLGVCYAQRKGYSKETSFQKSNSSSKATTMSENDFKHTKSFII

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FIGURE 5881

AGTTTCCTCGGCAGCGGTAGGCGAGAGCACGCGGAGGAGCGTGCGGGGGGGCCCCGGGAGACGGCGGCGGTGGCG
GCGCGGGCAGAGCAAGGACGCGGCGGATCCCACTCGCACAGCAGCGCACTCGGTGCCCCGCGCAGGGTCGCGATG

CTGCCCCGTTTGGCACTGCTCCTGCTGGCCGCTGGACGGCTCGGGCGCTGGAGGTACCCACTGATGGTAATGCT
GGCCTGCTGGCTGAACCCAGATTGCCATGTTCTGTGGCAGACTGAACATGCACATGAATGTCCAGAATGGGAAG
TGGGATTGAGATCCATCAGGGACCAAAACCTGCATTGATACCAAGGAAGGCATCCTGCAGTATTGCCAAGAAGTC
TACCTGAACTGCAGATACCAATGTGGTAGAAGCCAACCAACAGTGACCATCCAGAACTGGTGCAAGCGGGGC
CGCAAGCAGTGCAAGACCCATCCCCACTTTGTGATTCCCTACCGCTGCTTAGTTGGTGAGTTTGTAAGTGATGCC
CTTCTCGTTCTGACAAGTGCAAATCTTACACCAGGAGAGGATGGATGTTTGCAGAACTCATCTTCACTGGCAC
ACCGTCGCCAAAGAGACATGCAGTGAGAAGAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTGCCGAATT
GACAAGTTCCGAGGGGTAGAGTTTGTGTGTTGCCCACTGGCTGAAGAAAGTGACAATGTGGATTCTGCTGATGCG
GAGGAGGATGACTCGGATGTCTGGTGGGGCGGAGCAGACACAGACTATGCAGATGGGAGTGAAGACAAAGTAGTA
GAAGTAGCAGAGGAGGAAGAAGTGGCTGAGGTGGAAGAAGAAGCCGATGATGACGAGGACGATGAGGATGGT
GATGAGGTAGAGGAAGAGGCTGAGGAACCCACGAAGAAGCCACAGAGAGAACCACCAGCATTGCCACCACCACC
ACCACCACCACAGAGTCTGTGGAAGAGGTGGTTCGAGAGGTGTGCTCTGAACAAGCCGAGACGGGGCCGTGCCGA
GCAATGATCTCCCGCTGGTACTTTGATGTGACTGAAGGAAGTGTGCCCCATTCTTTTACGGCGGATGTGGCGGC
AACCGGAACAACTTTGACACAGAAGAGTACTGCATGGCCGTGTGTGGCAGCGCCATGTCCCAAAGTTTACTCAAG
ACTACCCAGGAACCTCTTGCCCGAGATCCTGTAAACTTCTTACAACAGCAGCCAGTACCCTGATGCCGTGAC
AAGTATCTCGAGACACCTGGGGATGAGAATGAACATGCCCATTTCCAGAAAGCCAAAGAGAGGCTTGAGGCCAAG
CACCGAGAGAGAATGTCCAGGTGATGAGAGAATGGGAAGAGGCAGAACGTCAAGCAAAGAACTTGCCCTAAAGCT
GATAAGAAGGCAGTTATCCAGCATTTCAGGAGAAAGTGAATCTTTGGAACAGGAAGCAGCCAACGAGAGACAG
CAGCTGGTGGAGACACACATGGCCAGAGTGAAGCCATGCTCAATGACCGCCGCCCTGGCCCTGGAGAACTAC
ATCACCGCTCTGCAGGCTGTTCTCTCGGCCTCGTCACGTGTTCAATATGCTAAAGAAGTATGTCCGCGCAGAA
CAGAAGGACAGACAGCACACCCCTAAAGCATTTCGAGCATGTGCGCATGGTGGATCCCAAGAAAGCCGCTCAGATC
CGGTCCCAGGTTATGACACACCTCCGTGTGATTTATGAGCGCATGAATCAGTCTCTCTCCCTGCTCTACAACGTG
CCTGCAGTGGCCGAGGAGATTGAGGATGAAGTTGATGAGCTGCTTCAGAAAGAGCAAACTATTTCAGATGACGTC
TTGGCCAACATGATTAGTGAACCAAGGATCAGTTACGGAACGATGCTCTCATGCCATCTTTGACCGAAACGAAA
ACCACCGTGGAGCTCCTTCCCGTGAATGGAGAGTTCAGCCTGGACGATCTCCAGCCGTGGCATTCTTTTGGGGCT
GACTCTGTGCCAGCCAACACAGAAAACGAAGTTGAGCCTGTTGATGCCCGCCCTGCTGCCGACCGAGGACTGACC
ACTCGACCAGGTTCTGGGTTGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGATGGATGCAGAATTCCGA
CATGACTCAGGATATGAAGTTCATCATCAAAAATTGGTGTCTTTGAGAAGATGTGGGTTCAAACAAAGGTGCA
ATCATTGGACTCATGGTGGGCGGTGTTGTATAGCGACAGTGATCGTCATCACCTTGGTGATGCTGAAGAAGAAA
CAGTACACATCCATTATCATGGTGTGGTGGAGGTTGACGCCGCTGTACCCCGAGAGGAGCGCCACCTGTCCAAG
ATGCAGCAGAACGGCTACGAAAATCCAACCTACAAGTCTTTGAGCAGATGCAGAACTAGACCCCGCCACAGCA
GCCTCTGAAGTTGGACAGCAAAACCATTGCTTCACTACCCATCGGTGTCCATTTATAGAATAATGTGGGAAGAAA
CAAACCCGTTTTATGATTTACTCATTATCGCCTTTTGACAGCTGTGCTGTAACACAAGTAGATGCCTGAACTTGA
ATTAATCCACACATCAGTAATGTATCTATCTCTTTACATTTTGGTCTCTATACTACATTATTAATGGGTTTT
GTGTACTGTAAAGAATTTAGCTGTATCAAACTAGTCATGAATAGATTCTCTCCTGATTATTTATCACATAGCCC
CTTAGCCAGTTGTATATTATTCTTGTGGTTTGTGACCCAATTAAGTCCTACTTTACATATGCTTTAAGAATCGAT
GGGGGATGCTTCATGTGAACGTGGGAGTTGAGCTGCTTCTCTTGCCTAAGTATTCTTTTCCGTGATCACTATGCAT
TTTAAAGTTAAACATTTTTAAGTATTTAGATGCTTTAGAGAGATTTTTTTCCATGACTGCATTTTACTGTACA
GATTGCTGCTTCTGCTATATTTGTGATATAGGAATTAAGAGGATACACACGTTTGTCTTTCGTGCCTGTTTTAT
GTGCACACATTAGGCATTGAGACTTCAAGCTTTTCTTTTTTGTCCACGTATCTTTGGGTCTTTGATAAAGAAAA
GAATCCCTGTTCAATTGTAAGCACTTTTACGGGGCGGGTGGGGAGGGGTGCTCTGCTGGTCTTCAATTACCAAGAA
TTCTCCAAAACAATTTTCTGCAGGATGATTGTACAGAATCATTGCTTATGACATGATCGCTTTCTACACTGTATT
ACATAAATAAATAAATAAATAAATACCCCGGGCAAGACTTTTCTTTGAAGGATGACTACAGACATTAAATAATCGA
AGTAATTTTGGGTGGGGAGAAGAGGCAGATTCAATTTTCTTTAACCAGTCTGAAGTTTCAATTTATGATACAAAAG
AAGATGAAAATGGAAGTGGCAATATAAGGGGATGAGGAAGGCATGCCTGGACAAACCCCTCTTTTAAGATGTGTC
TTCAATTTGTATAAATGGTGTTTTCATGTAAATAAATACATTCTTGAGGAGC

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FIGURE 5882

MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRNLNMHMNVQNGKWDSDPSGKTCIDTKEGILQYCQE
VYPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVGEFVSDALLVPDKCKFLHQERMDVCETHLHW
HTVAKETCSEKSTNLHDYGMLLPCGIDKFRGVEFVCCPLAEESDNVDSADAEEDSDVWWGGADTDYADGSEDKV
VEVAEEEEVAEEEEEAADDEDEDGDEVEEEAEPEEATERTTSIATTTTTTTESVEEVVREVCSEQAETGPC
RAMISRWFYFDVTEGKCAPFFYGGCGGNRNFDTEEYCMVCGSAMSQSLLKTTQEPLARDPVKLP TTAASTPDAV
DKYLETPGDENEHAHFQAKERLEAKHRERMSQVMREWEAEERQAKNLPKADKKAVIQHFQEKVESLEQEAAANER
QQLVETHMARVEAMLNDRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKKAAQ
IRSQVMTHLRVIERMNQSLSLLYNPAVAEEIQDEVDELLQKEQNYSDDLANMISEPRI SYGNDALMPSLTET
KTTVELLPVNGEFSLDDLQPWHSFGADSVFANTENEVEPVDARPAADRGLTTRPGSGLTNIKTEEI SEVKMDAEF
RHDSGYEVHHQKLVFFAEDVGSNKGAI IGLMVGGVVIATVIVITLVMLKKKQYTSIHHGVVEVDAAVTPEERHLS
KMQQNGYENPTYKFFEQMON

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FIGURE 5883

GCATGCTTTTTTTTTTTTTCCGGTAGGTGCGCCAGCTGAGGCGGTTTGTAAGTTTTGGGTGCGCAGTATGCTAGAATT
TTGAGGCTCCCTTCTGATGAAAAATTGAGCTGTCCATGCAGCCATGGAACCCGGGTTACAGCAGTGAGGGGGCCAC
GGCTCAAGAACTTACACATGTCCAAAAATGATTGAGATGGAGCAGGCGGAGGCCAGCTTGCTGAGTTAGACCT
GCTAGCCAGTATGTTCCCTGGTGAGAATGAGCTCATAGTGAATGACCAGCTGGCTGTAGCAGAACTGAAAGATTG
TATTGAAAAGAGACAATGGAGGGGCGATCTTCAAAAGTCTACTTTACTATCAATATGAACCTGGATGTATCTGA
CGAAAAAATGGCGATGTTTTCTCTGGCCTGTATTCTTCCCTTTAAATACCCGGCAGTTCTGCCTGAAATTACTGT
CAGATCAGTATTATTGAGTAGATCCCAGCAGACTCAGCTGAACACAGATCTGACTGCATTCCCTGCAAAAAACATTG
TCATGGAGATGTTGTATACTGAATGCCACAGAGTGGGTTAGAGAACACGCCTCTGGCTATGTCAGCAGAGATAC
TTCATCTTCACCCACCACAGGAAGCACAGTCCAGTCAGTTGACCTCATCTTCACGAGACTCTGGATCTACAGCCA
TCATATCTATAACAAATGCAAAAGAAAGAATATTCTAGAGTGGGCAAGGAGCTTTCCCTGTCTGGGTTTAGCAT
GCCTGGAAAACCTGGTGTGTTGTTGTGTGGAAGGCCACAAAGTGCTGTGAAGAATTCTGGTCAAGACTCAGAAA
ATTAAACTGGAAGAGAATTTTAATTGCGCATCGAGAAGACATTCCCTTTGATGGTACAAATGATGAAACGGAAAG
ACAAAGGAAATTTTCCATTTTGAAGAAAAAGTGTTGAGTGTAAATGGAGCCAGGGGAAACCACATGGACTTTGG
TCAGCTCTATCAGTTCTTAAACACCAAAGGATGTGGGGATGTTTCCAGATGTTCTTTGGTGTAGAAGGACAATG
ACATCAAGAGTAGTTGAAAGTATCTTGCCACTGTTGGCCTTTTGATTTTTTTTCCCACTTTTTCTTGAAAGATT
AAGTAATTTTATTTTAGTTCCATTCTAGAATGTTGGGGAGTGGGGCACAAGAAAAAATAGTATAGCTGAAATGCA
TCTGTTAAAAATGTCATGATTGAAAGCAGAACTGAGTTTCAAATTACAACCTTAAATTTGTTGTTAGATATTTCT
TCACATATCAGCTGCCCATTTTGAAGAAAGAAATTATCCATAAAGGTAATGTTGGTGTCTCCAATTTGCCAGCCATT
CCCAACCCCTTCTCCCTTACCTGCCTTCACTAAAGAACCCAGAAAAGCTAATTGCTCCCTTTTACGCTCTGT
GCAACTAACAACCTCTCAGTGGCCTCAGGACACAGCTTTGGCCTTGGGAATTCTGGGAAAACCTTTTACTTCCTGAT
TAAAGATACATATGCAGCTAGGCCACCTCCTCCCCCCTTACTGCCATAAACACCAAAGTGATGACTGGAGCTGG
AGGAGTTATTTGAACCACGACGGAAGGGCCAAGAGAGCCACGAAGATGCCAGTTGCCACATTGTTGAGCTGCTGA
CCCAACACCAGCCATTGCCTGTCTCTAAACATCTTATGAAATAAAACCAGTTTTGTTTAAAAAAAAAAAAAAAA
AAAA

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FIGURE 5884

MKIELSMQPWNPGYSSEGATAQETYTCPKMIEQAEQAELDLLASMFPGENELIVNDQLAVAEKDCIEKKT
MEGRSSKVYFTINMNLDSDEKMAMFSLACILPFKYPAVLPEITVRSVLLSRSQQTQLNTDLTAFLQKHCHGDVC
ILNATEWVREHASGYVSRDTSSSPTTGSTVQSVDLIFTRLWIYSHHIYNKCKRKNILEWAKELSLSGFSMPGKPG
VVCVEGPQSACEEFWSRLRKLNWKRILIRHREDIPFDGTNDETERQRKFSIFEKVFVSVNGARGNHMDFGQLYQF
LNTKGCGDVFQMFFGVEGQ

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FIGURE 5885

CGCGTGAAGTCTTCCTGCAGGCTGGCCATGGCGCCTTCACGTTCCCAAGGCTCCGGGCTTTGCCAGATGCTCAA
GGAGGGAGCGAAACACTTTTCAGGATTAGAAGAGGCTGTGTATAGAAACATACAAGCTTGCAAGGAGCTTGCCCA
AACCCTTCGTACAGCATATGGACCAAAAGGAATGAACAAAATGGTTATCAACCCTTGAGAGAGTTGTTTGTGAC
AAACGATGCAGCAACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCA
TATGCAAGAGCAAGAAGTTGGAGATGGCACAACCTTTGTTCTGGTATTTGCTGGAGCTCTCCTGGAATTAGCTGA
AGAACTTCTGAGGATTGGCCTGTCTAGTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGA
GATTCTTCCTAATTTGGTATGTTGTTCTGCAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTCGTAC
CTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCTATTTT
TCCTGATTCCGGCCATTTCATGTTGATAACATCAGAGTTTGTAATAATCTGGGCTCTGGTATCAGTTTCTCTCTC
AGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGTGATGTAACATCTGTCAAAGATGCAAAAATAGCAGT
GTACTCTTGTCCTTTTGATGGCATGATAACAGAACTAAGGGAACAGTGTGATAAAGACTGCTGAAGAATTGAT
GAATTTTAGTAAGGGAGAAGAAAACCTCATGGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAATGTCGT
AGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAATAAATATAATATCATGTTAGTGAGGCTAAA
CTCAAAATGGGATCTCCGAAGACTTTGTAAAACCTGTTGGTGCTACAGCTCTTCCTAGATTGACACCTCCTGTCTC
TGAAGAAATGGGACACTGTGACAGTGTTTACCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGA
AAAGGAAGATGGCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGGT
AGTAGACGATGGTGTAAATACTTTCAAAGTCTTACAAGGGATAAACGCTTGTACCCGGAGGTGGAGCAACAGA
AATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCTGGACTTGAACAGTATGCTATTAAGAAGTT
TGCTGAGGCATTTGAAGCTATTCCCCGCGCACTGGCAGAAAACCTCTGGAGTTAAGGCCAATGAAGTAATCTCTAA
ACTTTATGCAGTACATCAAGAAGGAAATAAAAACGTTGGATTAGATATTGAGGCTGAAGTCCCTGCTGTAAAGGA
CATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAACCTCGCTACTAATGCTGCAGT
CACTGTACTTAGAGTGGATCAGATCATCATGGCAAAACAGCTGGTGGGCCCCAAGCCTCCAAGTGGGAAGAAAGA
CTGGGATGATGACCAAAATGATTGAATTTGGCTTAATTTTTACTGTAGGTGAAGGCTGTATTTGTAGTAGTACTC
AAGAATCACCTGATGTTTTCTTATTCTCCTTAAATTAAGAGTTATTTTGTGTTTGTATTCTTGCTGGATGTTAT
AATAAACATATTGTTACTGTC

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FIGURE 5886

MALHVPKAPGFAQMLKEGAKHFSGLEEAVYRNIQACKELAQTTRTAYGPKGMNKMVINHLEKLFVTNDAATILRE
LEVQHPPAAKMIVMASHMQEQEVGDGTNFVLVFA GALLELA EELLRIGLSVSEVIEGYEIA CRKAHEILPNLVCCS
AKNLRDIDEVSSLLRTSIMSKQY GNEVFLAKLIAQACVSIFPDSGHFNVDNIRVCKILGSGISSSSVLHGMVFKK
ETEGDVT SVKDAKIAVYSCPF DGMITETKGT VLIKTA EELMNFSKGEENLMDAQVKAIADTGANVVVTGGKVADM
ALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCD SVYLSEVGDTQVVVFKHEKEDGAISTI
VLRGSTDNLMDDIERVVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIKKFAEAFEAI PR
ALAENSGVKANEVISKLYAVHQEGNK NVGLDIEAEVPAVKDMLEAGILD TYLGKYWAIK LATNAAVTVLRVDQII
MAKPAGGPKPPSGKKDWDDDQND

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FIGURE 5887

CCCTGAGGCTTTTCGGAGCGAGCTCCTCAAATCGCATCCAGATTTTCGGGTCCGAGGGAAGGAGGACCCCTGCGAA
AGCTGCGACGACTATCTTCCCCTGGGGCCATGACTCGGACGCCAGCCTGGTGTCCAGCCGCCGTCGTGCCAG
AGCCCGATGACCTTTTCTGCCGGCCCGGAGTAAGGGCAGCAGCGGCAGCGCCTTCACTGGGGGCACCGTGTCT
CGTCCACCCCGAGTGACTGCCCCGCCGAGCTGAGCGCCGAGCTGCGCGGCGCTATGGGCTCTGCGGGCGCGCATC
CTGGGGACAAGCTAGGAGGCAGTGGCTTCAAGTCGTCTCGTCCAGCACCTCGTCTGTCTACGTCTGCGGCGGCTG
CGTCGTCCACCAAGAAGGACAAGAAGCAAATGACAGAGCCGGAGCTGCAGCAGCTGCGTCTCAAGATCAACAGCC
GCGAGCGCAAGCGCATGCACGACCTCAACATCGCCATGGATGGCCTCCGCGAGGTTCATGCCGTACGCACACGGCC
CTTCGGTGCGCAAGCTTTCCAAGATCGCCACGCTGCTGCTGGCGCGCAACTACATCCTCATGCTCACCAACTCGC
TGGAGGAGATGAAGCGACTGGTGAGCGAGATCTACGGGGGCCACCACGCTGGCTTCCACCCGTGCGCCTGCGGCG
GCCTGGCGCACTCCGCGCCCTGCCCCGCCACCAGCGACCCGGCAGCAGCGCACGCCGCACATCACCCCG
CGGTGCACCAACCCATCCTGCCGCCCGCCGCGCAGCGGCTGCTGCCGCCGCTGCAGCCGCGGCTGTGTCCAGCG
CCTCTCTGCCCGGATCCGGGCTGCCGTGGTGGCTCCATCCGTCCACCGCACGGCCTACTCAAGTCTCCGTCTG
CTGCCGCGGCGCCCGCCGCTGGGGGGCGGGGGCGGCGGCGAGTGGGGCGAGCGGGGGCTTCCAGCACTGGGGCGGCA
TGCCCTGCCCCGTCAGCATGTGCCAGGTGCCGCCGCCGACCACACGTGTGCGCTATGGGCGCCGGCAGCCTGC
CGCGCCTCACCTCCGACGCCAAGTGAGCGGACTGGCGCCGGCGCGTTCGTGGCGACAGGGGAGCCAGGGGCGCGG
GGAAGCGAGGACTGGCTGCGCTGGGCTCGGGAGCTCTGTGCGGAGGAGGGGCGCAGGACCATGGACTGGGGGTG
GGGCATGGTGGGGATTCCAGCATCTGCGAACCAAGCAAATGGGGGCGCCACAGAGCAGTGGGGAGTGAGGGGAT
GTTCTCTCCGGGACCTGATCGAGCGCTGTCTGGCTTTAACCTGAGCTGGTCCAGTAGACATCGTTTTATGAAAAG
GTACCGCTGTGTGATTCTCTACTAGAACTCATCCGACCCCGACCACCACCTCCGGGAAAAGATTCTAAAAACT
TCTTTCCCTGAGAGCGTGGCCTGACTTGCAGACTCGGCTTGGGCAGCACTTCGGGGGGGAGGGGGTGTATGGG
AGGGGGACACATTGGGGCCTTGCTCCTCTTCTCCTTTCTTGGCGGGTGGGAGACTCCGGGTAGCCGCACTGCAG
AAGCAACAGCCCCGACCGCGCCCTCCAGGGTCTGCTCCCTGGCCCAAGGCCAGGGGCCACAAGTTAGTTGGAAGCCGG
CGTTCGGTATCAGAAGCGCTGATGGTCATATCCAATCTCAATATCTGGGTCAATCCACACCCCTCTTAGAACTGTG
GCCGTTCTCCCTGTCTCTCGTTGATTTGGGAGAATATGGTTTTCTAATAAATCTGTGGATGTTCTTCTTCAAC
AGTATGAGCAAGTTTATAGACATTGAGAGTAGAACCACCTTGTGGATTGGAATAACCCAAAAGTCCGATTTTCAGG
GGCGGGTGCAATTGTAGTTATTTTAAAATTTTCTTTTTTGGATGTGTAAATTTATCAATGATGAGGTAAGTGCGCAATG
CTAAGCTGTTTGCTCACGTGACTGCCAGCCCCATCGGAGTCTAAGCCGGCTTTCCTCTATTTTGGTTTATTTTGG
CCACGTTTAAACAAATGGTAAACTCCTCCACGTGCTTCCCTGCGTTCGTTGCAAGCCGCTCGGCGCTGCCTGCG
TTGCAAACTGGGCTTTGTAGCGTCTGCCGTGTAAACACCTTCCCTCTGATCGCACCGCCCTCGCAGAGAGTGTAT
CATCTGTTTTATTTTGTAAAAACAAAGTGCTAAATAATATTATTACTTGTTTGGTTGCAAAAACGGAATAAAT
GACTGAGTGTGAGATTTTAAATAAAATTTAAAGT

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FIGURE 5888

MDSDASLVSSRPSSPEPDDLFLPARSKGSSGSAFTGGTVSSSTPSCPPPELSAELRGAMGSAGAHPGDKLGGSGF
KSSSSSTSSSTSSAAASSTKKDKKQMTPELQQLRLKINSRERKRMHDLNIAMDGLREVMPYAHGPSVRKLSKIA
TLLLARNYILMLTNSLEEMKRLVSEIYGGHHAGFHP SACGGLAHSAPLPAATAHPAAAAHAHHHPAVHHPILPPA
AAAAAAAAAAAAVSSASLPGSGLPSVGSIRPPHGLLKSPSAAAAAPLGGGGGGSGASGGFQHWGGMPCPCSMCQV
PPPHHVVSAMGAGSLPRLTSDAK

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FIGURE 5889

CCGGAAGCCGCCGCGGACAAGCTCTCCCGGGCGCGGGCGGGGGTCTGTGTGCTTGGAGGAAGCCGCGGAACCCCCA
GCGTCCGTCCATGGCGTGGAGCCTTGGGAGCTGGCTGGGTGGCTGCCTGCTGGTGTGAGCATTGGGAATGGTACC
ACCTCCCCGAAAAATGTCAGAATGAATTCTGTAAATTTCAAGAACATTCTACAGTGGGAGTCACCTGCTTTTGCCAA
AGGGAACCTGACTTTTACAGCTCAGTACCTAAGTTATAGGATATTCCAAGATAAATGCATGAATACTACCTTGAC
GGAATGTGATTTCTCAAGTCTTTCCAAGTATGGTGACCACACCTTGAGAGTCAGGGCTGAATTTGCAGATGAGCA
TTCAGACTGGGTAAACATCACCTTCTGTCTGTGGATGACACCATTATTGGACCCCTGGAATGCAAGTAGAAGT
ACTTGCTGATTCTTTACATATGCGTTTTCTTAGCCCCATAAATTGAGAATGAATACGAAACTTGGACTATGAAGAA
TGTGTATAACTCATGGACTTATAATGTGCAATACTGGAAAAACGGTACTGATGAAAAGTTTCAAATTACTCCCCA
GTATGACTTTGAGGTCCTCAGAAACCTGGAGCCATGGACAACCTTATTGTGTTCAAGTTCGAGGGTTTCTTCCTGA
TCGGAACAAAGCTGGGGAATGGAGTGAGCCTGTCTGTGAGCAACAACCCATGACGAAACGGTCCCTCCTGGAT
GGTGGCCGTATCCTCATGGCCTCGGTCTTCATGGTCTGCCTGGCACTCCTCGGCTGCTTCGCCTTGCTGTGGTG
CGTTTACAAGAAGACAAAGTACGCCTTCTCCCTAGGAATTCTCTCCACAGCACCTGAAAGAGTTTGGGCCA
TCCTCATCATAACACACTTCTGTTTTTCTCCTTTCCATTGTGCGATGAGAATGATGTTTTTGACAAGCTAAGTGT
CATTGCAGAAGACTCTGAGAGCGGCAAGCAGAATCCTGGTGACAGCTGCAGCCTCGGGACCCCGCTGGGCAGGG
GCCCCAAAGCTAGGCTCTGAGAAGGAAACACACTCGGCTGGGCACAGTGACGTACTCCATCTCACATCTGCCTCA
GTGAGGGATCAGGGCAGCAACAAGGGCCAAGACCATCTGAGCCAGCCCCACATCTAGAACTCCAGACCTGGA
CTTAGCCACCAGAGAGCTACATTTTAAAGGCTGTCTTGGCAAAAATACTCCATTGGGAACTCACTGCCTTATAA
AGGCTTTTCATGATGTTTTTCAAGTTGGCCACTGAGAGTGTAATTTTCAGCCTTTTATATCACTAAAATAAGATC
ATGTTTTAATTGTGAGAAACAGGGCCGAGCACAGTGGCTCACGCCTGTAATACCAGCACCTTAGAGGTGAGGCA
GGCGGATCACTTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAATATGGTGAAACCCAGTCTCTACTAAAAATACA
AAAATTAGCTAGGCATGATGGCGCATGCCTATAATCCCAGCTACTCGAGTGCCTGAGGCAGGAGAATTGCATGAA
CCCGGGAGGAGGAGGAGGAGTTGCAGTGAGCCGAGATAGCGGCACTGCACTCCAGCCTGGGTGACAAAGTGAGA
CTCCATCTCAAAAAAAAAAAAAAAAAAATTGTGAGAAACAGAAATACTTAAATGAGGAATAAGAATGGAGATG
TTACATCTGGTAGATGTAACATTCTACCAGATTATGGATGGACTGATCTGAAAATCGACCTCACTCAAGGGTGG
TCAGCTCAATGCTACACAGAGCACGGACTTTTGGATTCTTTCAGTACTTTGAATTTATTTTCTACCTATATAT
GTTTTATATGCTGCTGGTGTCCATTAAAGTTTTACTCTGTGTTGC

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FIGURE 5890

GAATCACACTCAGGCAGTCTCTCTCCTTTCTGAACAGAGATGAGCCCTAAGATACCTGGAAGATTTTGTTTTTAA
CCTCACATTAAGGAAAGCACACATCACCTTGAAAGAGCTAAACTTTGACGTCTACAGAATTTCTCTAACTTAACA
TGTTGAGTCTCTGAGAGTGCAAACTTGAAACAAGAGAAAGTGGCCTGCCTGGCATCCTCTGCTTATTGAATGGT
TTTATTTAATTCTCCTTTACATTGCCACCTTAACAATCCTTCCAGCTACGTATCTTAAAGGATGTGATGGAGAAG
TTATCAACTGGTGTTTTCAGACCTCAGTTGGATGAACCCATTCCACTGTATGAGGCAAAAGTTTCCATGGAAGCT
GTTCAGAAAAATCAAGGAAGAAAAAGGTAGTGCACATCAGCGCCCTGGATCGCATACTTTCCAGAAGCGTCGCT
GAACCTGGCGACTGGACTCTGGCCGAGGACCTGGCAGAAGCGCCAGGGCAGGGTCACCGCTGGGACAGTGGGCGT
TGACGGCCACCCGGGATCGCCGCTGCGGGCTGCGTCTCGCGGGCTGCCACTGCGCATGCTCCGCTCGGAACCGG
CGGGGGCGGAGGCGGGGCCGCTCGGGGGCGGGAGCTCGGCGAGGCGCCACGTCAGGGGCGGGCCCGGCGCGCGC
GGGAAGTCTCTGTAGGGCGGCCGCTACCTCAGCCGCCGCGCTCATGGCCCTTTTCGGTGCCCGGCTACTCACC
GGGTTTCCGAAAGCCGCCGAGGTAGTGGGCTCCGACGAAAAGGGCCCGAGCCGTGGAGCTGCCGCTCCCC
GCCCCGTGAGCTGACGGAGCCGGCGGCCGCCGAGCCGCCCTGGTGGCGGGCTGCCTCTTCGCCCTTTCCCTGC
TGCGGGGGGCGAGAGGCGGTGGCAGCGCGCGGCCGCCGCGCTGCTCGGAGGAACCCCTTCGCCCGCCTGGACAA
CCGACCGCGGGTTCGCCGCGGAGCCCCGACGGGCGGCCGCCGAGCAGCCGGAGGCCCCGGTCCCGTTTTTAGA
TTCTAATCAAGAAAATGATTTGCTATGGGAAGAGAAGTTTCTGAAAGAACAACCTGTTACTGAATTACCTCAGAC
TTCACATGTATCATTCTCCGAGCCTGATATCCGTCCTCAAAAAGTACTGAGTTACCTGTGGACTGGAGTATTAA
AACGCGACTCCTTTTACCTCTTCTCAACCTTTTACCTGGCGAGATCATTGAAAGCACAGGAAGAAGCTCAAGG
TCTTGTCAGCATTGTAGGGCAACAGAAAGTTACTTTGCCTAAAAGTATACAGGATCCCAAACCTCTCCTCTGAGCT
CCGTGTACCTTCCAGCAGAGCCTTATCTATTGGCTCCACCCTGCTTTGTCTTGGCTACCCTGTTCCCTCGTAT
TGGAGCTGATAGAAAAATGGCTGGAAAGACAAGTCCTTGGTCAAAATGATGCAACCCTGCAGCATGTTTTAATGAG
TGACTGGTCTGTGAGCTTTACTTCTCTATATAATTTGCTGAAGACAAAACCTTTGCCCTATTTCTACGTTTGTAC
CTATCAGTTTACTGTCTGTTCGAGCAGCAGGATTAGCTGGAAGTGAATTAATCACAGCTCTCATATCTCCAAC
AACTCGAGGTTTTAAGAGAAGCTATGAGAAATGAAGGTATTGAATTTTCTCTGCCTTTAATAAAAGAAAGTGGCCA
TAAGAAGGAGACAGCATCTGGAACAAGCTTGGGATATGGGGAGGAGCAAGCCATCAGTGATGAGGATGAAGAGGA
AAGTTTTTCTGGCTGGAAGAGATGGGTGTGCAAGATAAAATTAAGGAGCCAGACATACTTTCTATCAAGCTGCG
TAAAGAGAAACATGAAGTACAAATGGATCACAGACCTGAATCTGTTGTGTGGTAAAGGAATCAACACCTTTAC
ATTGCTCAATTTTTTGATTAACCTCTAAGAGTTTAGTTGCTACCTCAGGTCCACAGGCAGGACTTCTCCAACCT
CTTGTCCTGTTGCTTTCCGAGGTGCCACAATGCAATGCTTAAGGCACGGAGTGTGAATGTGAAGACACAAGC
TCTTTCTGGATACAGAGACCAATTTAGTTTGGAGATTACAGGTCCATATGCCTCATTCTCTGCATTCACTGAC
CATGCTGCTCAAATCTTACAGAGTGGATCTTTCTCTGCAGTACTGTATCCACACGAGCCAACCTGCTGTATTTAA
CATCTGCCTGCAAAATGGACAAAGTACTTGATATGGAGGTTGTTTATAAGGAGCTTACTAAGTGGGTTTGCACCC
TAACACTCTGGAGCAACTTAGTCAAATACCGTTACTTGGGAAATCATCTTTACGGAATGTGGTGCTGAGAGACTA
CATTATAATTGGAGATCCTGAACACCAAAGTAAGCCTAAAAGGAATCTTTGAGGAAAAAGCCTTCTAGCAAGG
AAATTCAAGATTCTTGAAGTTGAAGGAATATACTGAAATGTTTATAAACATAACTTTTACTACAGTAGCATCTAA
GGTTTTAAATGTGTTTTACTATTTTCAGATTAGATTTTATAGATATAAAGATGAAAACTCAGATAACTCAAATGA
GATATCTATATCCCTACAACTAATTGTATATTGAGCAGAACTGAATTAATATGCTTCTTGCAAATGGGAAAT
CACATAGCAGTTACCCCATGGCATTGTGACTAATGGCATCAGGGCAAAAATATGTTACTTTACGATTTACCTGTT
AGCAGGTTCTTGTTCATAAAGGTAGAAAAATAATACAGACAACATCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5891

MALSVPGYSPGFRKPPEVVRLRRKRARSRGAAASPPRELTEPAARRAALVAGLPLRPFPAAGGRGGGSGGGPAAA
RRNPFARLDNRPRVAAEPPDGPAREQPEAPVPFLDSNQENDLLWEEKFPERTTVTELPQTSHVSFSEPDIPSSKS
TELPVDWSIKTRLLFTSSQPFTWADHLKAQEEAQGLVQHCRATEVTLPKSIQDPKLSSELRCTFQQSLIYWLHPA
LSWLPLFPRIGADRKMAGKTSPWSNDATLQHVLMSDWSVSFTSLYNLLKTKLCPYFYVCTYQFTVLFRAAGLAGS
DLITALISPTRGLREAMRNEGIEFSLPLIKESGHKKETASGTS LGYGEEQAISDEDEEESFSWLEEMGVQDKIK
KPDILSIKLRKEKHEVQMDHRPESVVLVKGINTFTLLNFLINSKSLVATSGPQAGLPPTLLSPVAFRGATMQMLK
ARSVNVKTQALSGYRDQFSLEITGPIMPHSLHSLTMLLKSSQSGSFSAVLYPHEPTAVFNICLQMDKVLDMEVVH
KELTNCGLHPNTLEQLSQIPLLKGSSLRNVVLRDYIYNWRS

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FIGURE 5892

AAGCTTGGCACGAGGCCTACAACCGCCCGGGAGAAGATGGCTGCCCCAGCAGTGTCCGGGCTCTCCCGGCAGGTG
CGATGCTTCAGTACCTCTGTGGTCAGACCATTGCGCAAGCTTGTGAGGCCTCCTGTTTCAGGTATACGGTATTGAA
GGTCGCTATGCCACAGCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAGTTGTTG
AGAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATCCCTATGTGAAGCGTTCCATTAAA
GTGAAAAGCCTAAATGACATCACAGCAAAAGAGAGGTTCTCTCCCTCACTACCAACCTGATCAATTTGCTTGCT
GAAAATGGTCGATTAAGCAATACCCAAGGAGTCGTTTCTGCCTTTTCTACCATGATGAGTGTCCATCGCGGAGAG
GTACCTTGACAGTGACCTCTGCATCTCCTTTAGAAGAAGCCACACTCTCTGAATTAAAACTGTCTCAAGAGC
TTCCTAAGTCAAGGCCAAGTATTGAAATTGGAGGCTAAGACTGATCCGTCAATCTTGGGTGGAATGATTGTGCGC
ATTGGCGAGAAATATGTTGACATGTCTGTCAAGACCAAGATTGAGAAGCTGGGCAGGGCTATGCGGGAGATTGTC
TAAAGTGTGGTTTTCTGCCATCAGTGAAAATTCTTAACTTGGAGCAACAATAAAAAGCTTCAGAACAGATC
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 5893

MAAPAVSGLSRQVRCFSTSVVRPFAKLVRPPVQVYGIEGRYATALYSAASKQNKLEQVEKELLRVAQILKEPKVA
ASVLNPYVKRSIKVKSNDITAKERFSPLTTNLLINLLAENGRLSNTQGVVSAFSTMSVHRGEVPCTVTSASPLE
EATLSELKTVLKSFLSQGQVLKLEAKTDPSILGGMIVRIGEKYVDMSVTKIQKLGRAMREIV

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FIGURE 5894

CAGACTCGAGCAGTCTCTGGAACACGCTGCGGGGCTCCCGGGCCTGAGCCAGGTCTGTTCTCCACGCAGGTGTTCCGCGCGCCCCGTTTCAGCCATGTCGTCCGGCATCCATGTAGCGCTGGTACTGGAGGCAACAAGGGCATCGGCTTGCCATCGTGCGCGACCTGTGCCGGCTGTTCTCGGGGGACGTGGTGCTCACGGCGCGGGACGTGACGCGGGGCCAGCGGCGGTACAGCAGCTGCAGGCGGAGGGCCTGAGCCCGCGCTTCCACCAGCTGGACATCGACGATCTGCAGAGCATCCGCGCCCTGCGCGACTTCCTGCGCAAGGAGTACGGGGGCTGGACGTGCTGGTCAACAACGCGGGCATCGCCTTCAAGGTTGCTGATCCACACCCTTTTCATATTCAAGCTGAAGTGACGATGAAAACAAATTTCTTTGGTACCCGAGATGTGTGCACAGAATTACTCCCTCTAATAAAACCCCAAGGGAGAGTGGTGAACGTATCTAGCATCATGAGCGTCAGAGCCCTTAAAAGCTGCAGCCCAGAGCTGCAGCAGAAGTTCGCGAGTGAGACCATCACTGAGGAGGAGCTGGTG GGGCTCATGAACAAGTTTGTGGAGGATACAAAGAAGGGAGTGACACCAGAAGGAGGGCTGGCCCAGCAGCGCATACGGGTGACGAAGATTGGCGTCACCGTTCTGTCCAGGATCCACGCCAGGAACTGAGTGAGCAGAGGAAAGGGGACAAGATCCTCCTGAATGCCTGCTGCCCAGGGTGGGTGAGAACTGACATGGCGGGACCCAAGGCCACCAAGAGCCCA GAAGAAGGTGCAGAGACCCCTGTGTACTTGGCCCTTTTGGCCCCAGATGCTGAGGGTCCCCATGGACAATTTGTTTCAGAGAAGAGAGTTGAACAGTGGTTGAGCTGGGCTCACAGCTCCATCCATGGGCCCCATTTTGTACCTTGTCTGAGTTGGTCCAAAGGGCATTACAAATGTCATAAATATCCTTATATAAGAAAAAAATGATCTCTTATCAATTAGCACTCACTAATGTACTACTAATTGAGCAACCTACGCACTCAGTTGACTACGTAAATCTGTTCAGGTCTTTTGTGATTTCTCTGATGCAGGAGAGGAAAAATTGTAATTGATGAAAATAATGAATGAAAATCAACAGATGAATAAATGGTTCTTTATAAGTG

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FIGURE 5895

MSSGIHVALVTGGNKGIGLAIVRDLCLRFSGDVLTARDVTRGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALRD
FLRKEYGGDLVLVNNAGIAFKVADPTPFHIQAEVTMKTNEFGTRDVCTELLPLIKPQGRVVNVSSIMSVRALKSC
SPELQQKFRSETITEEELVGLMNKFVEDTKKGVHQEGWPSSAYGVTKIGVTVLSRIHARKLSEQRKGDKILLNA
CCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVSEKRVEQW

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FIGURE 5896A

CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAATAGGTGACAATGACAGGAAAATTAG
ATGTAGTAAAAGAGAGTGTGTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTGTAATCCTTCCTAGCTTGGT
GACATGAGCAAATTACTTGATTTAAGTGAGCATTTCCTCATCTGTACAGTGGAGATAACGATAATTGTGCCTGCT
AAGAAGAAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAAAACATTTGGTACAGTATGTGACACATAGTACAAA
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACCTGTGATATTGTGAAGTTTTTCATACAGCAAATTGGACATCAT
GAGATGGATTGATTAATAAATAGATTTGAACTTCAAGGACTGGTAGTGTCTTGCTTTGGAAAGAAGAACTTG
GTTTATCCTAATAATAGTAGGATAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTGTTATGATGCGCTGGTGA
TGATAGGAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAAATGGTGCATTTTTTCAGTGATGTTTGGC
CTATGTAGCTATTCTCTGATAACTATAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAACCCCTTAGTCT
GAAACTTTAGCACCAATCCCCCTTGCCCCCATTGAAATACGTATTTTTTAAACATGGCTTTTGATAATGTGAGG
GTTTTTCTTTTTTGGCATTAGCAGTGCTGATTGTGATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG
ATAGGAGGATGGAAGGTCTGGATGCCGCTTGGGGAGTTAGGAGATTGGCAGACTTACCCTGTACCCTCTAGCC
CTACTCCTTTGCCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTTCACAG
AATGCAGTAAAAGCAGGTAGGTTACAAGTGCAGCAACAGGAAGATGTCTTTTCTTCATTACAGCAACACTTATTT
GAGAGCTTACCATGTGCTAGGCACATACAAAGATAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT
GTAAACAGGTTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTTCGGAGCTCAGTGTCTGATAGGAGTTATTTCTCT
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACCTTTCTCTGTTATCTCAAATGATTT
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTGTGCACCATGGACAATTTGCTGAGGGAGATTTCACTG
TGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG
ATTATGTTCTGTGACTCAGCTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCTCTGCAAGATTATTGCGATGCCATTA
AAATAACATCTCTGGCCACTTCTGTTTCAACATCAAAACAGTTCGGTAATATCACGATTGCATCCCTGTGTGG
ACGCCAACAAATTCAGTGCTTCTGAGATAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGG
ATTTGGCAAAGAAAGTTGCTAATGATTCATTCTTATTGGAGGCTTATTGAGAATTGGTTGTAAATAGAAAATA
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATTTCTAACTAAATTAGGAT
CAATTGACAATTGTTGGCCTATGTTAAGTATTTTCTTTACTGAATACAAGTACCACATAACTAAATTTGTAATGG
AAGACTGCAATTTGCTTGAAGAACTTAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAAGTAAAGAAA
TGAAAGGAAATGAAGAGTTTTCCAAAGAAAGATTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA
GACCTGAAAACCTACCTTCTTTATGGTAACCGAGCTCTTTGTTTTCTCGTACTGGACAGTTTAGAAATGCACTCG
GTGATGGAAGAGAGCCACTATTCTGAAGAACACTTGGCCAAAGGTCATTATCGTTATTGTGATGCTCTTTCTA
TGCTGGGGGAATATGACTGGGCCCTGCAAGCAAACATAAAAGCTCAAAAACCTCTGTAAAAATGACCCTGAGGGAA
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAACAAATAGAAGACCTACAAGGTGCAACAGCAAATAAGG
ATCCAATTAAGCCTTTTATGAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC
TTAACTTTGTGGAAGAGGAAAGAGATTTAGAAAATTAATACAGAAATGGCCAACGGTGGTAATCAGAATCTAA
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTATCCTGAATTTTACCACCATCAAGTCAGCCTC
CAAAACATAAAGGAAAACAAAATCTCGAAACAATGAATCAGAAAAGTTGAGTTCTAGTTTACCATTGACTTTAC
CAGCAGATTTGAAGAACATCTTGGAGAAACAGTTTTCTAAATCTTCCAGAGCTGCACACCAGGATTTTGCTAATA
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGAGCGCTGCAC
AGGCTTTTACAGAGTTGCTGAACGTTTAGATCCTCAAAAATAAAGCAATTGAACCTGGCCATGATTAACATAG
TTTTGGTCTGCTATGGAAGTTGCCATTTCTCTCCTTGAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAACC
AGTTTAAGAGGATTATTGAACACTACCCAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGGAAGAGTGT
ATTTGAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAAGCAAGAACCTTGATTTATCGTCTTCTCTG
GAGTGTAACTTGGCCACAGAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAATAAAGATGCTGTTAGAGA
AATTTGTTGAAGAAATGCAAGTTCCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA
AGATCCAGATATACATAACTGATCCAGACTTTAAGGGTTTTATACGCATCAGCTGTTGCCAGTACTGTAAAAATAG
AATTCACATGAATTGCTGGAAGAAGTTAAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTTCTACAAG

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FIGURE 5896B

GAATATGTCTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT
GTGAATTTGAACACAAGGTCATAAAGAAAAGGTTCTTCCAAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG
AGAACTAAGACTGAAAGAAGACAAAAATGAAGAGAAAGATCCAAAAAAGAAGCAAAAAAGTTAGCACAAAG
AAAGAATGGAGGAGGACTTAAGAGAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAACTGTAGACAATGTTT
AGCGTTGTCTAGTTTCCTTGATGACAGAATTCTACAGTGTATAAAGCAGTATGCTGACAAGATTAAATCCGGCATA
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGGAAAGTTTTGAGCACAGAAGACTATACAACCTGTTTTT
CTAGCAGAAATTTTCTAAATGAAGCAGTGGACTATGTTATTCGCCACTTGATTCAAGAAAATAACAGAGTAAAGA
CAAGAATATTTCTGCATGTTTTGAGTGAGCTTAAAGAAGTGGAGCCCAAATTAGCCGCCTGGATCCAAAACTTA
ATAGCTTTGGCTTAGATGCCACAGGAACTTCTTTTCTCGTTATGGAGCATCTCTTAAACTGCTTGATTTTAGTA
TCATGACTTTCTCTGGAATGAGAAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCT
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTTAAATATGGCTGCTAGAAGAACACAGAGACAAGTCCAGCAT
TGCAATAGTGCTTTAGATGAATCTTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAACAAGATAGTGGTG
AAGCACCGTTTAGTTCAACCAAGGTGAAAAACAAAGCAAGAAAAAGAAGCCAAAGGATTCAAGCCTATGTTAG
TTGGGTCTGGAACAACCTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAAT
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAAATCGAAGCTCTCTATGACC
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAAACAAAATGTTCAACTCTAT
ATGATTACTTCTCTCAGTTTTTGGAGGAACATGGTCCCTTGGACATGAGTAACAAGATGTTCTCTGCAGAATATG
AGTTTTTCCAGAAGAACTCGACAGATACTAGAAAAAGCAGGAGGTTTTAAACCTTTCTCTTGGGATGCCCTC
GTTTTGTTGTGATTGACAACCTGTATTGCAGTGAAGAAGTTGCATCACGGCTCAAGAAAAAAGGAAGAAGAAAA
ACATTAACAAAGTAGAAGAAATTTCAAAGCAGGGGAGTATGTACGAGTTAACTACAACCTGAATCCAGCTG
CTAGGGAAATTTAAACCAGATGTAAAGTCTAAACCAGTGTGAGATTCTCTTCAGCACCAGCTTTTGAAATGTGA
AACCACAACTGTGTCTGCAAATTTCTCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACCAGTATCCGACAAT
CTTCTAGACAAGTTTCTGAGGATGGGCAACCCAAAGGGTCTCTTCTAATTCTCTTAAACCAGGCTCTGAGGATG
CAAATTACAAGCGAGTCTCCTGTAATTTCCCCAAACCGTTCTTGAAGATGTGAACCAACTTATTGGGCTCAAT
CCCATTGGTTCACAGGATACTGTACGTATCTTCTTTCCAGAGATTTGATATCACCCAGACACCGCCAGCATACA
TAAACGTGTTACCAGGTTTGGCCAGTACACCAGCATATATACACCTTGGCCAGCCTTTCTCCTGAATATCAGC
TACCAAGATCAGTACCAGTGGTGCCGCTCTTTTGTAGCCAATGACAGAGCAGATAAAAAATGCTGCTGCCTATTTTG
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCACCAGATGCCTCTGAAACACAGATCCTTGAGGGCTCTT
TGGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATACAGTCCTGAGTGAGTCTAACAGAAATGATG
AGCACTGTGGAATTTCTAACACAAATGTGAAGTAATTCCAGAAAGCACCAGTGCAGTAACAAACATTCCACACG
TGCAGATGGTTGCCATACAGGTATCTTGAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG
AGGAACGACAAGGGGAAATTTACCGGATTGAAAAGGAGCACCAGTATTACAAGACCAACTTCAAGAAGTGTATG
AAAATTATGAGCAGATAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAGTTGAAAAGGCACTTAG
AAGAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCTTCAAGATTTGGAAGAGAAAATAAAAATGGCAAC
AGGAAAAAAGAAATCCAAGAAAGACTAAATCACTGAAGAAGAAAATTAAGGTTTCAAATGCCAGTGAAA
TGTATACCCAGAAAAATGATGGAAGGAAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA
CACTTACAAATGAGAAAATGAAAATAGAAGAGTATATAAGAAAGGGAAAGAGGATTATGAAGAGAGTCATCAGA
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAAAAGCTGGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT
CACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG
ATATACGTTTATGGGAATTTCTTTCTAATGTTACAAAAGAAATGAGAAAGCAAGTCTCAGTTTGAAGAAC
AAATTAAGGCAATTAATAATGGTTCTCGGCTCAGTGAACCTTTCTAAAGTGCAGATTTCTGAGCTTTCAATTCCTG
CCTGTAAACACGGTTTCTCCGAGTTACTCCCTGAGTCTTACAGCCACGATGGCCAAGGGCTTGTGACTTCTGCAA
GCGACGTGACTGGAACCACGCAAGCACTTACAGGGATCCTAGTGTGTTCTCTGCTGGTGATTCCCCAGGGGAGG
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCTGGTCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGCTG
GCCAGGCAGCTCTGTGAGAACGAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCTCCAGGACGTGCTGCGGTT
CAAGCCAGTCTCAAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTGAGTGGTATTTCCCATGTTACAACAGCA
CTGAGCTTGTGTTTTATTAAAAAGTGCGAAGCAAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA
TTGTCCAAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA

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FIGURE 5896C

CTTATGAGCCCAGCTCTGCCACCCCGTGACCAGGTCCCTCCCAGGGCTCACCTCGGTGGTTGTTGCACCATCAC
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCTGTGAAATATGCC
ACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAAGGGTGCTTTAAGCAGT
GGCTTAAAGGGCAGAGCGCTTGCCCGGCCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACCTTCTGGAAGAG
GCTGGCCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGGTAGTCACACTTCACTAAAGTGTCATCCACCA
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAAAAACAAACATTTGAAGACCCTTGTGCATTG
TGTGTCACAAAGCTAAATACATGGAAATCGTTAATATCGCTGATATTAAGTAATTTCCCCACTCTGAGTGAATAC
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCACTGGGGCTGCGCAGGGCTCT
TTGAGGTGGGTGGCTTCTTTTGGAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA
TAGCCAAGCGCCCCACGTTTGTTCACGTTTGTTCCTTTTCTGTTTGAAAAACCTGTTCTGGTAGCTCCAC
AAGAGAGATGATACTGACTTTTTAAATTTTTTACAAGAGTCTGTATTCCTGATATGCCTATATTTTTCTCAAAG
ATTCTGCATTTTAAGGATGGGCATAAGCAAATATATTTAATAATTTATAGTTAATGTTAAATATTGGCTGAT
TTAGACCAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTGATTTTTATTATTTATGTTCCCC
GTTAGATTGTTTTAAGTGTTTGCTTTTCATCTTTTATAGATGTAATCTGATTTTCAAAAATCATTAACTTTTT
AATTAGTATCGACTAAGACTTTTTCCCCCTGGAATCGAGGCTGTGTGTCGTCATCCAGCCCCCGGTTGGAGCC
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCTCTTCTGTGAGTCAGTCAGCGAGTGCTTGGGATC
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAATGGCCACCACCATTCTCCTTCCCCACCCACC
ACAAAAGAGAAGCTGTGTCTTTAGACAACCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTTGTGT
AAAGTATGCATGCAGTCTTGACTGTGACCTAAGAACAAAACGTAACTGCATTAGAAACCATGAAAAATTAGA
TATTGTTTTGTGACTTTTAGACAGTGGTAAATATAGAACCATGAATTCTGGTCACATTCCATTCTCTCCAACAT
GAAGGATCAAAAATGTTTTTCAATGTGTTCTTTGTTCCTGGAACCTTAGAGTCATGAGTTTATGAGCTGATT
TGGTCACCTTCCTCTGCCCTTTGTTCACTGTGAGTTCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAACACTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACCTGTCAGAATAAAGAACATTCTAAAA
GAG

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FIGURE 5897

MDNFAEGDFTVADYALLEDCPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLFDICSIWCSKEPI
SVLQDYCDAIKINIFWPLLQHQNSSVISRLHPCVDANNSRASEINLKKLQHLLELMEDIVDLAKKVANDSFLIGG
LLRIGCKIENKILAMEEALNWIYAGDVTILTKLGSIDNCWPMLSIFFTYKYHITKIVMEDCNLLEELKTQSCM
DCIEEGELMKMGNEEFSEKRFDAIIYYTRAIEYRPENYLLYGNRALCFLRTGQFRNALGDGKRATILKNTWPK
GHYRYCDALSMLGEYDQALQANIKAQKLCNDPEGIKDLIQOHVKLQKQIEDLQGRITANKDPIKAFYENRAYTPR
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDDCDCHPEFSPPSSQPPKHGKQKSRNNESE
KFSSSSPLTLPLADLKNILEKQFSKSSRAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKI
KQLNLAMINYVLVYGLAISLLGIGQPEELSEAENQFKRIIEHYPSGLDCLAYCGIGKVYLKKNRFLEALNHFE
KARTLIYRLPGVLTWPTSNVIEESQPKIKMLLEKFVEECKFPFVDAICCYQKCHGYSKIYIITDPDFKGF
RISCCQYCKIEFHMNCWKKLKTTFNDKIDKDFLQIGICTPDCEGVISKIIFSSGGEVKCEFEHKVIEKVP
PILKQKCSLEKLRLKEDKKLKRKIQKEAKKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQCIK
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTFCSSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSSELKEVE
PKLAAWIQKLSNFGLDATGTFFSRYGASLKLDDFSIMTFLWNEKYGHKLDSIEGQLDYFSEPASLKEARCLIW
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKPKD SKPMLVSGTTSVT SNNEII
TSSEDSNRNDSAGPFAVPDHLRQDVEEFEALYDQHSNEYVVRNKKLWDMNPKQKCSSTLYDYFSQFLEEHPD
MSNKMFAEYEFFPEETRIQILEKAGGLKPFLLGCPRFVIDNCIALKKVASRLKKRKKKNIKTKVEEISKAGEY
VRVKLQLNPAAREFKPDVKSKPVSDSSAPAFENVKPKPVSANSPKPCEDVKAKPVSDNSSRQVSEDGQPKGVS
SNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDITQTPPAYINVLPGLPQYTSIYT
PLASLSPEYQLPRSVFVPSFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAH
TVLSESNRNDHECGNSNNKCEVIPESTSAVTNIPHVQMAIQVSWNIHQEVNTEPYNPFEEQGEISRIEKEHQ
VLQDQLQEVYENYEQIKLGLLEETRDLEEKLRHLEENKISKTELDWFLQDLEREIKKWQOEKKEIQERLKSLLK
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVAAEVSVLENWKE
SEVYKLQIMESQAEAFLLKGLISRDPAAYPDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS
KVQISELSFPACNTVHPELPESSGHDGQGLVTSASDVTGNHAALHRDPVFSAGDSPGEAPSALLPGPPPQPE
ATQLTGPKRAGQAALSERSPVADRKQPVPPGRAARSSQSPKKPFNSIIIEHLSVVFPYCNSTELAGFIKKVRSKNK
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGDKRTYEPSSATPVRSSQGSPPSVVAPSPKTKGQKAEDVPVRI
ALGASSCEICHEVFKSKNVRVLKCGHKYHKGCFKQWLKGQSACFACQGRDLLTEESP SGRGWPSQNQELPSCSSR

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FIGURE 5898

CTCGCGCAAGCGGCGTGCGGTCCCGCGGCGCTGCAGTTGTGTCCAGCCGGTCACGGGGCGGCTATGCGGCCACG
TTCTTCGAGAGGTTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAGGAGGAGGGGCGGAGG
GAGACGCCCCGAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAAGTGC GGCTCCTTCGAAGACAAACA
AAAACATCTTTGGAAGTTTCTTTGCTAGAAAAATATCCGTGCTCCAAGTTTATAATTGCTATAGGAAATAATGCA
GTAGCATTCTGTTCATCATTTGTTATGAATTCAGGAGTCTGGGAGGAAGTTGGTTGTGCCAACTCTGGAATGAA
TGGTGTAGAACAACAGACACTACACATCTGTCTCCACAGAGGCTTTTTGTGTGTTTTATCATCTAAAAATCCAAT
CCCTCGGTTTTTCTCTGTTCAGTGCAGTTGCTATGTTGCAGAAGATCAACAGTATCAGTGGCTGGAAAAGGTTTTT
GGCTCTTGTCCAAGGAAGAACATGCAGATAACTATTCTCACATGTCGACATGTTACCGATTATAAAACCTCAGAA
TCCACCGGCAGCCTTCCTTCTCCTTTCTGAGAGCCCTAAAAACACAGAATTTCAAAGACTCGGCGTGTGTCCA
TTGCTAGAACCAACGAATATAGTACACGACCTTCCTGCAGCAGTTCTAAGCTACTGTCAAGTATGGAAAATCCCA
GCAATTCTGTACTTGTGTTATACTGATGTGATGAAATTAGACCTAATCACAGTGGGAAGCTTTTAAGCCTATACTT
TCTACCAGAAGCTTGAAGGGTTTGGTTAAGAATATCCCCAAAGCACTGAGATACTAAAGAAATTGATGACAACA
AATGAGATTGAGAGTAACATTTATACATTGATCTTAAACATTGTTTTGTAGTGTATATTACTTGTCCATTCTTTA
AGGGGAGCAGCCTGCACCTCTTTGTAGATTACTTTTGGGGATATATTTTGAGAATGATGAAACGGAATAAAATT
GTAAAAAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5899

MAATFFGEVVKAPCRAGTEDEEEEEEGRRETPEDREVRLLQARKREVRLRRQTKTSLEVSLLKYPCKSFIIAI
GNNAVAFLLSSFVMNSGVWEEVGCAKLWNEWCRITDTHLSSTEAFVIFYHLKSNPSVFLCQCSCYVAEDQQYQWL
EKVFGSCPRKNMQITILTCRHVTDYKTSESTGSLPSPFLRALKTQNFKDSACCPLEQPNIVHDLPAAVLSYCQV
WKIPAILYLCYTDVMKLDLITVEAFKPILSTRSLKGLVKNIPQSTEILKKLMTTNEIQSNIYT

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FIGURE 5900

CGCGGCGGCTGGCGTCGGGAAAGTACAGTAAAAAGTCCGAGTGCAGCCGCCGGGCGCAGGATGGGATCCGGCTCC
TCCAGCTACCGGCCCAAGGCCATCTACCTGGACATCGATGGACGCATTGAGAAGGTAATCTTCAGCAAGTACTGC
AACTCCAGCGACATCATGGACCTGTTCTGCATCGCCACCGGCCTGCCTCGGAACACGACCATCTCCCTGCTGACC
ACCGACGACGCCATGGTCTCCATCGACCCACCATGCCCGCAATTGAGAACGCACTCCGTACAAAGTGAGACCT
GTGGCCATCAAGCAACTCTCCGCTGGTGTGCGAGGACAAGAGAACCACAAGCCGTGGCCAGTCTGCTGAGAGACCA
CTGAGGGACAGACGGGTTGTGGGCCTGGAGCAGCCCCGGAGGGAAGGAGCATTTGAAAGTGGACAGGTAGAGCCC
AGGCCCAGAGAGCCCCAGGGCTGCTACAGGAAGGCCAGCGCATCCCTCCAGAGAGAGAAGAATTAATCCAGAGC
GTGCTGGCGCAGGTTGCGAGCAGTTCTCAAGAGCATTCAAAATCAATGAACTGAAAGCTGAAAGTTGCAAAATCAC
TTGGCTGTCTAGAGAAACGCGTGGAATTGGAAGGACTAAAAGTGGTGGAGATTGAGAAATGCAAGAGTGACATT
AAGAAGATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGACCAACTGCCCTGTAAGTACAGTTTTTTGGATAAC
CACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCCCAAGTACCTGCTCTCTCCAGAGACCATCGAGGCC
CTGCGGAAGCCGACCTTTGACGTCTGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCACATGTACCAC
GACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTCAACCCTCAGGAGGTGGCTGTTCTGTGTCCACGACAAC
TACAGAAACAACCCCTTCCACAACCTCCGGCACTGCTTCTGCGTGGCCAGATGATGTACAGCATGGTCTGGCTC
TGCAGTCTCCAGGAGAAGTTCTCACAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGAC
CATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCACAGAGCTGGCGGTCCGCTACAATGACATCTCACCG
CTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGCAACATCTTCTCCAACATCCCA
CCTGATGGGTTCAAGCAGATCCGACAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAA
ATTATGGATTCTTTCAAAGAGAAAATGGAGAATTTTACTACAGCAACGAGGAGCACATGACCCTGCTGAAGATG
ATTTTGATAAAATGCTGTGATATCTCTAACGAGGTCCGTCCAATGGAAAGTCGCAGAGCCTTGGGTGGACTGTTTA
TTAGAGGAATATTTTATGCAGAGCGACCGTGAGAAGTCAGAAGGCCCTTCTGTGGCACCGTTCATGGACCGAGAC
AAAGTGACCAAGGCCACAGCCAGATTGGGTTTCATCAAGTTTGTCTGATCCCAATGTTTGAAACAGTGACCAAG
CTCTTCCCCATGGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGG
ATAGATGACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAG
AGAAGCAGAGATGTGAAAACAGTGAAGGAGACTGTGCCTGAGGAAAGCGGGGGCGTGGCTGCAGTTCTGGACG
GGCTGGCCGAGCTGCGCGGGATCCTTGTGCAGGGAAGAGCTGCCCTGGGCACCTGGCACCACAAGACCATGTTTT
CTAAGAACCATTTTGTTCAGTATACAAAAA

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FIGURE 5901

MSGSSSYRPKAIYLDIDGRIQKVIFSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIDPTMPANSERTP
YKVRPVAIKQLSAGVEDKRRTSRGQSAERPLRDRRVVGLEQPRREGAFESGQVEPRPREPQGCYQEGQRIPPERE
ELIQSVLAQVAEQFSRAFKINELKAEVANHLAVLEKRVELEGLKVVEIEKCKSDIKKMREELAARSSRTNCPCY
SFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEHMYHDLGLVRDFSINPVTLRRWLF
CVHDNYRNNPFHNRHCFCAQMMYSMVWLCSLQEKFSQTDILILMTAAICHDLDPGYNNTYQINARTELAVRY
NDISPLENHHCAVAFQILAEPECNIFSNIPPDGFKQIRQGMITLILATDMARHAEIMDSFKEKMFNFDYSNEEHM
TLLKMILIKCCDISNEVRPMEVAEPWVDCLEEFMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFVLIPIPMF
ETVTKLFPMVEEIMLQPLWESRDRYEELKRIDDAMKELQKKTDSLTSGATEKSRERSRDVKNSEGDCA

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FIGURE 5902

CCACGAGACATTGGCCGGCGCCGGCCTCCGCCCCGCCTCTCCGCCAATCACCGCCCGCCTGCTCCCCCTCGCCGT
GGGTCCCCGCGAGGCCGCCACCCCGGGGTGCGCGTCTCCGCCTCGCCGCAGTCGGGGCAGCCGCTCGCCCCCTCTT
TTCCATGTATCCGTCCAGGATCCCATGACAGATTCTGTTGTACAGTCTCCTTACAGAGTTTGAGCGGTGCTGAAC
TGTCAGCACCATCTGTCCGGTCCCAGCATGCCTTCTGAGACCCCCAGGCAGAAGTGGGGCCACAGGCTGCCCC
CACCGCTCAGGGCCACACTCGGCGAAGGGGAGCCTGGAGAAGGGGTCCCCAGAGGATAAGGAAGCCAAGGAGCCC
CTGTGGATCCGGCCCGATGCTCCGAGCAGGTGCACCTGGCAGCTGGGCCGGCCTGCCTCCGAGTCCCCACATCAC
CACACTGCCCCGGCAAAATCTCCAAAATCTTGCCAGATATTCTGAAGAAAATCGGGGACACCCCTATGGTCAGA
ATCAACAAGATTGGGAAGAAGTTCGGCCTGAAGTGTGAGCTCTTGGCCAAGTGTGAGTTCTTCAACGCGGGCGGG
AGCGTGAAGGACCGCATCAGCCTGCGGATGATTGAGGATGCTGAGCGCGACGGGACGCTGAAGCCCGGGGACACG
ATTATCGAGCCGACATCCGGGAACACCGGGATCGGGCTGGCCCTGGCTGCGGCAGTGAGGGGCTATCGCTGCATC
ATCGTGATGCCAGAGAAGATGAGCTCCGAGAAGGTGGACGTGCTGCGGGCACTGGGGGCTGAGATTGTGAGGACG
CCCACCAATGCCAGGTTGACTCCCCGGAGTCACAGTGGGGGTGGCTGGCGGCTGAAGAACGAAATCCCCAAT
TCTCACATCTTAGACCAGTACCGCAACGCCAGCAACCCCTGGCTCACTACGACACCACCGCTGATGAGATCCTG
CAGCAGTGTGATGGGAAGCTGGACATGCTGGTGGCTTCAGTGGGCACGGGCGGCACCATCACGGGCATTGCCAGG
AAGCTGAAGGAGAAGTGTCTGGATGCAGGATCATTGGGGTGGATCCCGAAGGGTCCATCTCGCAGAGCCGGAG
GAGCTGAACCAGACGGAGCAGACAACCTACGAGGTGAAGGGATCGGCTACGACTTCATCCCCACGGTGTGGAC
AGGACGGTGGTGGACAAGTGGTTCAAGAGCAACGATGAGGAGGCGTTACCTTTGCCCGCATGCTGATCGCGCAA
GAGGGGCTGCTGTGCGGTGGCAGTGTGGCAGCACGGTGGCGGTGGCCGTGAAGGCCGCGCAGGAGCTGCAGGAG
GGCCAGCGCTGCGTGGTCATTCTGCCCGACTCAGTGCAGAACTACATGACCAAGTTCCTGAGCGACAGGTGGATG
CTGCAGAAGGGCTTTCTGAAGGAGGAGACCTCACGGAGAAGAAGCCCTGGTGGTGGCACCTCCGTGTTTCAGGAG
CTGGGCCTGTGAGCCCCGCTGACCGTGTCCCCGACCATCACCTGTGGGCACACCATCGAGATCCTCCGGGAGAAG
GGCTTCGACCAGGCGCCCGTGGTGGATGAGGCGGGGGTAATCCTGGGAATGGTGACGCTTGGGAACATGCTCTCG
TCCCTGCTTGCCGGGAAGGTGCAGCCGTCAGACCAAGTTGGCAAAGTCATCTACAAGCAGTTCAAACAGATCCGC
CTCACGGACACGCTGGGCAGGCTCTCGCACATCCTGGAGATGGACCACTTCGCCCTGGTGGTGCACGAGCAGATC
CAGTACCACAGCACCGGGAAGTCCAGTCAGCGGCAGATGGTGTTCGGGGTGGTCACCGCCATTGACTTGCTGAAC
TTCGTGGCCGCCCAGGAGCGGGACCAGAAGTGAAGTCCGGAGCGCTGGGCGGATGTTTCACCAAGGAAATATTGA
GAGAGAAGTCGGCCAGGTAGGATGAACACAGGCAATGACTGCGCAGAGTGGATTAAAGGCAAAAGAGAGAAGAGT
CCAGGAAGGGGGCGGGGAGAAGCCTGGGTGGCTCAGCATCCTCCACGGGCTGCGCCGTCTGCTCGGGGCTGAGCTG
GCGGGAGCAGTTTGCGTGTGTTGGGTTTTTAATTGAGATGAAATTCAAATAACCTAAAAATCAATCACTTGAAG
TGAACAATCAGCGGCATTTAGTACATCCAGAAAGTTGTGTAGGCACCACCTCTGTACGTTCTGGAACATTCTGT
CATCACCCCGTGAAGCAATCATTTCCCTCCCGTCTTCCTCCCTGGCAACTGCTGATCGACTTTGTGTCTC
TGTTGTCTAAATAGGTTTTCCCTGTTCTGGACATTTTCATATAAATGGAATCACAC

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FIGURE 5903

CCCGAGGGCGTCGGCAGGGTCGGCGGCGTCGGCAGCAGTGTGACGGCAGCGCGGGCGGGTGGGAAATGGCG
GAGTATCTGGCCTCCATCTTCGGCACCGAGAAAGACAAAGTCAACTGTTTATTTTCAAAATGGAGCATGT
CGTCATGGAGACAGGTGCTCTCGGTTGCACAATAAACCGACGTTTAGCCAGACCATTGCCCTCTTGAACATTTAC
CGTAACCCCTCAAAACTCTTCCAGTCTGCTGACGGTTTGCCTGTGCCGTGAGCGATGTGGAGATGCAGGAACAC
TATGATGAGTTTTTTGAGGAGGTTTTTACAGAAATGGAGGAGAAGTATGGGGAAGTAGAGGAGATGAACGCTGTG
GACAACCTGGGAGACCACCTGGTGGGGAACGTGTACGTCAAGTTTCGCCGTGAGGAAGATGCGGAAAAGGCTGTG
ATTGACTTGAATAACCGTTGGTTTAATGGACAGCCGATCCACGCCGAGCTGTCACCCGTGACGGACTTCAGAGAA
GCCTGCTGCCGTCAGTATGAGATGGGAGAAATGCACACGAGGCGGCTTCTGCAACTTCATGCATTTGAAGCCATT
TCCAGAGAGCTGCGGCGGGAGCTGTATGGCCGCCGTGCAAGAAGCATAGATCAAGATCCCGATCCCGGGAGCGT
CGTTCTCGGTCTAGAGACCGTGGTCGTGGCGGTGGCGGTGGCGGTGGTGGAGGTGGCGGCGGACGGGAGCGTGAC
AGGAGGCGGTGAGAGATCGTGAAAGATCTGGGCGATTCTGAGCCATGCCATTTTACCTTATGTCTGCTAGAAA
GTGTTGTAGTTGATTGACCAAACAGTTTATAAGGGGAATTTTTTTTAAAAACAACAAAAAAAAAACATACAA
AGATGGGTTTCTGAATAAAATTTGTAGTGATAACAGT

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FIGURE 5904

MAEYLASIFGTEKDKVNCSFYFKIGACRHGDRCSRLHNKPTFSQTIALLNRYRNPQNSSQSADGLRCAVSDVEMQ
EHYDEFFEEVFTMEEEKYGEVEEMNVCNLDHVLGNVYVKFRREEDAEKAVIDLNNRWFNQPIHAELSPVTD
REACCRQYEMGECTRGGFCNFMHLKPI SRELRRRELYGRRRKKHRSRSRSRERRSRSDRGRGGGGGGGGGGGGRE
RDRRRSRDRERSGRF

FIGURE 5905

CGGAGCCGCCCGCTGAGGTGAGGAGGCGTCTGCGCTGATCGGGTCCGCCGCCGAGCCAGCCAGAGTCGCGAC
CCGAGGGGAGCCGGGGCCGGAGCCCGAGCCCGAGCCGAGCCGAGGCGAGCCGAGCGCGGAGACCGTGCCCCCG
CCTCGGCCCGCGCCGCCCGCGGCCAGGCCCGGCATGCGAGGAGGAGTGCCGGGTGCTCTCCATACAGAGCCACGTC
ATCCGCGGCTACGTGGGCAACCGGCGGCCACGTTCCCGCTGCAGGTTTTGGGATTTGAGATTGACGCGGTGAAC
TCTGTCCAGTTTTCAAACACACAGGCTATGCCCACTGGAAGGGCCAAGTGTGAATTCAGATGAGCTCCAGGAG
TTGTACGAAGGCTGAGGCTGAACAACATGAATAAATATGACTACGTGCTCACAGGTTATACGAGGGACAAGTCG
TTCTTGGCCATGGTGGTGACATTGTGCAGGAGCTGAAGCAGCAGAACCCAGGCTGGTGTACGTGTGTGATCCA
GTCTTGGGTGACAAGTGGGACGGCGAGAAGGCTCGATGTACGTCCCGGAGGACCTCCTTCCCGTCTACAAAGAAAA
GTGGTGCCGCTTGCAGACATTATCAGCCCAACCAGTTTGAGGCCGAGTTACTGAGTGGCCGGAAGATCCACAGC
CAGGAGGAAGCCTTGCGGGTGTGACATGCTGCACTCTATGGGCCCCGACACCGTGGTCAACACAGCTCCGAC
CTGCCCTCCCCGAGGCGAGCAACTACCTGATTGTGCTGGGAGTCAGAGGAGGAGGAATCCCGCTGGCTCCGTG
GTGATGGAACGCATCCGGATGGACATTGCGAAAGTGGACGCCGTCTTTGTGGGCACTGGGGACCTGTTTGCTGCC
ATGCTCCTGGCGTGGACACACAAGCACCCCAATAACCTCAAGGTGGCCTGTGAGAAGACCGTGTCTACCTTGCAC
CACGTTCTGCAGAGGACCATCCAGTGTGCAAAAGCCAGGCCGGGGAGGAGTGAGGCCAGCCCCATGCAGCTG
GAGCTGCGGATGGTGCAGAGCAAAAGGGACATCGAGGACCCAGAGATCGTCGTCCAGGCCACGGTGTGTGAGGG
CCCCGCCGCTTGCCCGTGACACGCAGCGCGTTGGTGTCTCCGTGTTTGTCCTGTGAAAACATGTAACGTCTGCC
TTAGAGCCATGACCGAAACTTGATATTTTTTCTTTTCATGAGTGTCCGGCATCTGCTGGTCTTCATTGTGAAACG
TGCCAGTCGTGCTTTGTGAAAAATAACAAAGTGGTCACAAAAA

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FIGURE 5906

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKQVLSDELQELYEGLRLNNMN
KYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVPLADIITPN
QFEAELLSGRKIHSQEEALRVMDMLHSMGPDTVVITSSDLFSPQGSNYLIVLGSQRRRNPAAGSVVMERIRMDIRK
VDAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDI
EDPEIVVQATVL

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FIGURE 5907

GCCTGCTCAGTGTGCTGGGTACCAGGCGACTCCGGGACAGGGGGTCTCGGCCGTGCGCGTCATGGTTTCGCGCGT
GCAGCTCCCGCCTGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAG
GAAGCTCCGGAAATACATCGTCGCCAGGACTCAGCGGGCCGAGGTGGTTTTACGCACGACGAGCTGCTGAAGGT
GTGGAAAGGACTGTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTTT
CCAGCTCGTTCATGCTTTTCAGACCACGGAGGCGCAGCACCTGTTCTTCAGGCCTTCTGGCAGACCATGAATCG
CGAGTGGACGGGCATTGACAGGCTGCGCCTGGATAAATTCTACATGCTCATGCGGATGGTCTGAACGAGTCTCT
GAAGGTTCTGAAGATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCT
GCACCCAGCAGCCAGGCCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGT
GGGCGCCGAGGAGCTTACGGCAGACCAGAACCTGAAGTTTCATCGACCCCTTCTGCAGAATTGCTGCCCCGACCAA
GGATTCTTGGTTTTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGA
AGACCTCCTGAATGAACTGGACACACAGGATGAGGAGGTGGCTCGGACAGTGATGAGTCTCTGAGGGTGGTGA
GCGTGGAGACGCGCTGTCCCAGAAGAGGTCTGAGAAGCCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGC
TGGTGAGGAGCAGGCAGGTGACGACAGGGACAGTGGCGGCCCGCTTCTCCAGTTGACTACGAGGCAGTTGCTAA
CAGACTGTTTGAATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAA
GCTGCAGGACCTGGCAGGAGGCATTTTCCCTGAAGATGAGATCCAGAGAAGGCCTGCAGGCGCTGCTTGAAGG
GAGGCGGCAGAGAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAAGGTGAGAAGGA
GCCCCCGAGCCCGGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCCGACCCCGAGGCGCGGGCAGA
GGCTGGTGAGCAGCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCAGGGGCCGTGGCCAGAGAGGGGC
TCGCCAGAGAAGGAGGACACCTCGGCCCTGACCAGTGCCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGGAGAA
GAAGAAGAAACGCAGGGAGTGATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGACCCG
GGGACGAGGCTGACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCCTGTGCCAGGCGGGAGGGAAG
GGCGGCACTGGAGAGATGGGCCCATCATTAGGGGCCAGCATCCAGGAACCTGGACCTTTCCCCAGAGCCTCCGCC
TGTGGCTGTGATGACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAAACTCTGCCTGCAGCAGGACTGGCCGCC
CCTGCTGTGGGGGTTTCAGAAAATAAAATGCCGCGCAGCCCTTGCCAGGGGAAGTGTGCTTCAGGTGTGTCTTA
CGGACGTGTGGGAGGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTTATATTCATGTTTTGTGGAAAAATCTT
GCAAGACATTTCTCCTTTACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCC
TCAATCTGGGGTCTAGAGTTGTGCAAGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCGGGGTGAGCGTGTGTGT
GGTGGGAAGACCTGGCTTCCGCGAGAGCCTTGTTCCTGGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGG
TCCGCAGGCTGCGCACCTCTTTCCCTCAGCCAGGTACCCCTCAGCGTCTCCCTGCCCTCTCCCTTCACACCT
GCTGGAGCCTGTGAGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCAGGGCTTTCCACC
TGCATGGAACAAGGGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTTG
GGTTTTGCCCGCATCTTCTGTTCCATGGGTGCCAGCCAGCCAGGCCGTGTGGATCCAGCGAGAGGCCAGGGCT
TGGAGTGGGCTGGGACCAGGAAGGACCTTAGGCTGTGGCTGGCCTTGTGCAGACCTGGACTGCATCCGGTTC
CCCAAAGCCCTGCTGCATTTCAGTGTCCCCAACCCCGGGCAGGTGGCACCTGGTGACACCTCTTCAGTCCCAC
TCAGCTGGGCGGCCGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCTAG
GGGTTAGGGTTCTTTCCCCAAAGGAACTTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCC
AGCACTTTGGGAGGCCGAGGTGGCCAGATCACCTGAGGTGAGGAGTTTGAGACCAGACTGACCAACATGGAGAAA
CCCCATCTCTACTAAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTG
AGGCAGGAGAATTGCTTGAACCTGGGAGGCAGAGGTTGTGGTGAGCTAAGATCACGCCATTGCACTCCAGCCTGG
GCAACGAGAGGGAACTCTGTTTC

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FIGURE 5908

TCTATGAAACCAACATACATGGCGTTTGCATCACAGTTGGAGTCAGATGTGAGCCCGGAGGGCAGGTGTCTGGCT
TGTCCACCCGGAAGCCCTGAGGGCAGCTGTTCCCACTGGCTCTGCTGACCTTGIGCCCTGGACGGCTGTCTCAG
CGAGGGGCGGTGCACCCGCTCCTGAGCAGCGCCATGGGCTGCTGGCCTTCTGAAGACCCAGTTCTGTCTGCAC
CTGCTGGTGGCTTTGTCTTCGTGGTGAGTGGTCTGGTTCATCAACTTCGTCCAGCTGTGCACGCTGGCGCTCTGG
CCGGTCAGCAAGCAGCTCTACCGCCGCTCAACTGCCGCTCGCATACTCACTCTGGAGCCAAGTGGTCATGCTG
CTGGAGTGGTGGTCTGTCACGGAGTGTACACTGTTACGGACCAGGCCACGGTAGAGCGCTTTGGGAAGGAGCAC
GCAGTCATCATCCTCAACCACAACCTTCGAGATCGACTTCTCTGTGGGTGGACCATGTGTGAGCGCTTCGGAGTG
CTGGGGAGCTCCAAGGTCTCGCTAAGAAGGAGCTGCTCTACGTGCCCCCTCATCGGCTGGACGTGGTACTTTCTG
GAGATTGTGTTCTGCAAGCGGAAGTGGGAGGAGGACCGGGACACCGTGGTGAAGGGCTGAGGCGCCTGTGGGAC
TACCCCGAGTACATGTGGTTTCTCCTGTACTGCGAGGGGACGCGCTTCACGGAGACCAAGCACCGCGTTAGCATG
GAGGTGGCGGCTGCTAAGGGGCTTCTGTCTCAAGTACCACCTGCTGCCGCGGACCAAGGGCTTCACCACCGCA
GTCAAGTGCCTCCGGGGGACAGTCGCAGCTGTCTATGATGTAACCCCTGAACCTTCAGAGGAAACAAGAACCCGTCC
CTGCTGGGGATCCTCTACGGGAAGAAGTACGAGGCGGACATGTGCGTGAGGAGATTTCCTCTGGAAGACATCCCG
CTGGATGAAAAGGAAGCAGCTCAGTGGCTTCATAAACTGTACCAGGAGAAGGACGCGCTCCAGGAGATATATAAT
CAGAAGGGCATGTTTCCAGGGGAGCAGTTTAAGCCTGCCCGGAGGCCGTGGACCCTCCTGAACCTCCTGTCTCTGG
GCCACCATTCCTGTCTCCCCCTCTTCAGTTTTGTCTTGGGCGTCTTTGCCAGCGGATCACCTCTCCTGATCCTG
ACTTTCTTGGGGTTTGTGGGAGCAGCTTCCTTTGGAGTTTCGCAGACTGATAGGAGTAACTGAGATAGAAAAGGC
TCCAGCTACGGAAACCAAGAGTTTAAGAAAAAGGAATAATTAATGGCTGTGACTGAACACACGCGGCCCTGACGG
TGGTATCCAGTTAACTCAAACCAACACACAGAGTGCAGGAAAAGACAATTAGAACTATTTTTCTTATTAAGTG
GTGACTAATATTAACAAAACCTTGAGCCAAGAGTAAAGAATTGAGAAGGCCTGTCAGGTGAAGTCTTCAGCCTCCC
ACAGCGCAGGGTCCCAGCATCTCCACGCGCGCCCGTGGGAGGTGGGTCCGGCCGGAGAGGCCTCCCGCGGACGCC
GTCTCTCCAGAACTCCGCTTCCAAGAGGGACCTTTGGCTGCTTTCTCTCCTTAACTTAGATCAAAATTTTAAAAA
AAAAAAAAA

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FIGURE 5909

MGLLAFLKTQFVLHLLVGFFVVSGLVINFVQLCTLALWPVSKQLYRRLNCRLAYSLWSQLVMLEWWSCTECTL
FTDQATVERFGKEHAVIILNHNFEIDFLCGWTMCERFGVLGSSKVLAKKELLYVPLIGWTWYFLEIVFCKRKWEE
DRDITVEGLRRLSDYPEYMWFLLYCEGTRFTETKHRVSMEVAAAKGLPVLKYHLLPRTKGFTTAVKCLRGTVA
YDVTILNFRGNKNPSSLGILYGKKYEADMCVRRFPLEDIPLDEKEAAQWLHKLYQEKDALQEIYNQKGMFPGEQFK
PARRPWILLNFLSWATILLSPLFSFVLGVFASGSPLLILTFLGFVGAASFGVRRLLIGVTEIEKGSSYGNQEFKKK
E

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FIGURE 5910

GCGGCACACGTGCGACGGCCGTGATGAAGTTCGCTTACCGGTTTTCAAATTTGCTGGGTACGGTGTACCGGCGTG
GGAACCTAAAATTTTACCTGCAATGGAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCACTGTATTTGACCTTA
AAAACAACAAATCTGACACGCTGCCCCTGCCACTCGGTACAACGTCAAGTGCCTGGGGCTGTCCCCGGATGGCC
GCCTCGTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTCAGCCTGGTCTGCAGGTCTGTGCTGCACCACT
TCCACTTCAAGGGCTCTGTGCACAGTGTGCTTCTCCCTGATGGCAGGAAGTTTGTGTGCACAAAGGGTAACA
TTGCCCAGATGTATCATGCCCCTGGAAGAAGCGGGAGTTCAACGCCTTCGTTCTGGACAAGACCTATTTTGGGC
CCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAAGACATGTCCA
CCTGGGTGTTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCACTGGGGGGACATAAGGATGCCATCGTGG
CCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGCTGTGCATGTGGCAGTGTG
ACACGCCCCCGAGGGCTTGC GGCTGAAGCCCCCTGCGGGCTGGAAAGCAGACCTGTTGCAGCGGGAGGAGGAAG
AGGAGGAGGAGGAGGACCAGGAGGGCGACAGAGACCACCATCCGGGAAAAGCCACTCCGGCCGAGGAGGAGA
AGACAGGAAAAGTGAAGTACTCACGGCTGGCCAAGTACTTCTTCAATAAAGAAGGGGATTTTAAACACCTGACAG
CTGCAGCATTTTATAAGAAGTCTCACCTCTTGGTCACTGGCTTTGCTTCTGGAATCTTCCATCTTCATGAGCTGC
CAGAGTTTAACTCATCCACTCCCTGAGCATTTAGATCAGAGCATCGCCTCAGTGGCCATCAATAGCTCGGGGG
ACTGGATTGCTTTTGGCTGTTAGGCCTGGGCCAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCTACGTGCTCA
AGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCCGACGGACAGTACATCGTGACTGGCGGGG
ACGACGGCAAGGTCAAGGTGTGGAACACCTCAGCGGCTTCTGCTTCGTCACTTTTACGGAGCACTCCAGCGGGG
TGACCGGTGTGACCTTTACTGCCACCGGTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGCGAGCCTTTG
ACCTTCACAGGTACCGAACTTCCGCACCTTACCTCTCCACGCCCCACCCAGTTCTCCTGTGTGGCGGTGGATG
CGAGCGGTGAGATCGTCTCTGCAGGGGCGCAGGACTCCTTTGAGATTTTCTGTGTGGTCCATGCAGACAGGCAGGC
TCCTTGATGTTTTGTCTGGACACGAAGGGCCCATCAGTGGTCTGTGTTTTAACCCAATGAAGTCCGTCTGGCCA
GTGCCCTCTGGGACAAGACAGTGC GCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCTGGCCCTGA
CCTCTGATGCTCTGGCTGTGACTTTTCCGCTGATGGTGGGAGCTGGCTGTGGCCACACTGAACTCACAGATCA
CCTTCTGGGACCCCTGAGAACGCGGTGCAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGGCAGGAAGG
AGCTGGACAAGATTACAGCCAAGCACGCGGCCAAGGGGAAGGCCTTACC GCCCTGTGCTACTCTGCAGACGGCC
ACAGCATCCTGGCGGGAGGCATGTCCAAGTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCATGAAGAGGT
TCGAGATCTCTTGCAACCTGTCTTTGGACGCCATGGAGGAATTTTGAACCGAAGAAAAATGACAGAGTTTGGCA
ACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTCCGATACCACTGCCAGGCGTCAGGAAAGGTG
ACATGAGTTCTCGGCACTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCACTGGGCGCTGCTGGG
CGGCCACCAACCGGAGGGACTCCTCATCTACTCCCTGGACACCCGCGTGCTCTTTGACCCGTTTGAGCTGGACA
CCAGCGTACCCCCGGGAGGGTGC GCGAGGCACTGCGCCAGCAGGACTTCACCAGGGCCATCCTCATGGCCCTCC
GGCTCAACGAGAGCAAACCTGGTGCAGGAGGCCCTGGAGGCGGTGCCAGGGGCGAGATTGAAGTGGTCACCTCCT
CCCTTCTGAACTGTATGTGGAGAAAGTGCTGGAGTTTTTAGCTTCTCCTTTGAAGTGTCTCGCCACCTGGAA
TCTACCTCCTCTGGA CTCAAACTGCTCATGTTGCACGGACAGAAGCTGAAGTCCAGAGCCGGGACGCTGCTGC
CTGTCAATTCAGTTCTCCAGAAGAGCATCCAGCGGCACCTGGACGACCTGTGAAACTCTGTAGCTGGAACCACT
ATAACATGCAGTACGCACTAGCAGTTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGGAAGTGAGG
AGGAGGCAGAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCAGAGACTCAGAAGAAGAGATGC
TGGCCTAGAGCCAGCCGTTGCAGCGTTGGATTGTGCCGGCTAAGACCTGCCAGGGAGATGGGACCTTTGTGCCA
CCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATACTGTCACTAGTGGTAGTGACTTGCTTTTCCTG
TGCACACATGTAGCCCATCAGGACAGCGAGCGGTCACGCCAGGGGCCGACGCACTGGCACCTGGCCCC
AGGAGCGGGGCCGTGTGAACGGTGATGAATGTTGAAAATGCGTCTCAGAGAGGTATTCACATGAACCTTTGTATGA
GACTTATTTATATCTTTAACATAAAGGTTTGATAAAGAACTTAGGATTAAAAAAAAGATGGAGTTTTCTAACGT
GAGGATGAAGTCTACACTTCAGATTAAAAAGGGTTATGTTGTA

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FIGURE 5911

CCCATCTCCACCCCTCCCCTGAACCCCACTCCCCACTGAGGTCCCCAAACCCACCCCTCACTCCACCCCTGAGGG
CCCCATCCTCTGAACCCCAATCCCCAGCCCCACTGAGCTCTTAACCCTCCCCACCTGAGGGTTCCCTTTCCCTG
CCCGTCCCCCAGCTTCCTAGCTCCCCACCCCAAGTGACCCCCCGCAGCTCCTCGCCCCCTCCCACTGCAAACCGGC
ACTGAAGGGCTGCCCGGCCCGCCCCCTCCCCGCCCGCGGGACACGCCCAGATTCTTTGCCCCCATAGCCTGG
TGACCTCTGGCCACCCGCTGTCCCAGGTGGGCCTGGATCCTTCCAGCTCATTCTTTGCCTGCGCCGTCCCTCGTT
CCATGGCCCACTCCTCCCCGGGGACCCTGAGCCTGGAAGCCCCGGACCCTGGAACCTTGAACCCACCAGCTGGC
TGTACCCGGAGCCGTGGCAGCAGCCCTCATCCCCATGGCGGCCATCCCAGCCCTGGACCCAGAGGCCGAGCCAG
CATGGACGTGATTTTGGTGGGATCCAGTGAGCTCTCAAGCTCCGTTTACCCGGGACAGGCAGAGATCTTATTGC
ATATGAAGTCAAGGCTAACCCAGCGAAATATAGAAGACATCTGCACTCTGCTGCGGAAGTCTCCAGGTTACACACA
GCACCCCTCTGTTTGAGGGAGGGATCTGCGCCCCATGTAAGGACAAGTTCTGGATGCCCTCTTCTGTACGACGA
TGACGGGTACCAATCCTACTGCTCCATCTGCTGCTCCGGAGAGACGCTGCTCATCTGCGGAAACCCCTGATTGCAC
CCGATGCTACTGCTTCGAGTGTGTGGATAGCCTGGTCCGCCCGGGACCTCGGGGAAGGTGCACGCCATGAGCAA
CTGGGTGTGCTACCTGTGCCTGCCGTCTCCCCGAAGCGGGTGTCTGCAGCGTCGGAGGAAGTGGCGCAGCCAGCT
CAAGGCCCTTCTACGACCGAGAGTCGGAGAATCCCCCTTGAGATGTTTCAAACCGTGCCTGTGTGGAGGAGACAGCC
AGTCCGGGTGCTGTCCCTTTTTGAAGACATCAAGAAAGAGCTGACGAGTTTGGGCTTTTTTGAAAGTGGTTCTGA
CCCGGGACAACCTGAAGCATGTGGTTGATGTACAGACACAGTGAGGAAGGATGTGGAGGAGTGGGGACCCCTTCGA
TCTTGTGTACGGCGCCACAGCTCCCCTGGGCCACACCTGTGACCGTCTCCAGCTGGTACCTGTTCCAGTTCCA
CCGGTTCCCTGCAGTACGCACGGCCCAAGCCAGGCAGCCCCAGGCCCTTCTTCTGGATGTTCTGTGGACAATCTGGT
GCTGAACAAGGAAGACCTGGACGTGCGATCTCGCTTCTGGAGATGGAGCCAGTCACCATCCCAGATGTCCACGG
CGGATCCTTGCAGAATGCTGTCCGCGTGTGGAGCAACATCCCAGCCATAAGGAGCAGCAGGCACTGGGCTCTGGT
TTCGGAAGAAGAATTGTCCCTGCTGGCCCAGAACAGCAGAGCTCGAAGCTCGCGGCCAAGTGGCCCACCAAGCT
GGTGAAGAACTGCTTTCTCCCCCTAAGAGAATATTTCAAGTATTTTCAACAGAACTCACTTCCTCTTTATAAAT
GAGTCACTATACTGTGAAGAAAAAGACTTTTCCTAGAACAAAGGCAACTTTCCTC

6404/6881
FIGURE 5912

MAAIPALDPEAEPSMDVILVGSELSSSVSPGTGRDLIAYEVKANQARNIEDICICGSLQVHTQHPLFEGGICAP
CKDKFLDALFLYDDDGYSYCSICCSGETLLICGNPDCTRCYCFECVDSLVGPGTSGKVHAMSNNVCYLCLPSSR
SGLLQRRRKWRSQKAFYDRESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFL ESGSDPGQLKHVVDVT
DTRKDV EEWGPF DLVYGATAPLGHTCDRPPSWYLFQFHRFLQYARPKPGSPRPFFWMFVDNLVLNKEDLDVASR
FLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSSRHVALVSEEELSLLAQNKQSSKLA AKWPTKLVKNCFLPLREY
FKYFSTELTSSL

6405/6881
FIGURE 5913

GCGACGCGGCGCAGGCGGCGGGAGTGCGAGCTGGGCCCGTGTTTCGGCCGCGCCATGGCCGCGGTGGACCTGGA
GAAGCTGCGGGCGTCGGGCGCGGGCAAGGCCATCGGCGTCCTGACCAGCGGCGGCGACGCGCAAGGTCCCCCTGAC
AAGCCACCAGGCCCCCTGCTGAGATGGCTGTGACCTGGGCTGACCCGCCCAGTGGCACATTGACTCCGCCTGG
AGCTGGGGAGACCAGAGAGGCCCTGTGGTTGGACGGTGGCCTGGGTGCGCTGCTCCTGCCCTCTCCTTGCCCTGC
CTCAGCTGCTGCCGTGCCAGAGGCGTGGCACCTCACCTCACACCTGCTCCCTGCTGCTGAGCCCCACGCCAAGCTG
GAGAGCGGATGAGAAGCATGTGTAACCAGGGTAGAGGTGAGAGTCTCTCGTGGGGGTCTCCATGTTCAAGGGA
GCTGCCGAGGCTTGAGCAGGAGCCCCCAGCAGGAACTGGCTTTGCCAAGGCCCGCTGGGACAGACTGTTTCT
TTCACTGCAGTCTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGACCTCAGAGCCTGGTGGCACCAGCA
TCATGTCCAGGCTGGGGGGCATGAACGCTGCTGTCCGGGCTGTGACGCGCATGGGCATTTATGTGGGTGCCAAG
TCTTCTCATCTACGAGGGCTATGAGGGCCTCGTGGAGGGAGGTGAGAACATCAAGCAGGCCAACTGGCTGAGCG
TCTCCAACATCATCCAGCTGGGCGGCACTATCATTGGCAGCGCTCGCTGCAAGGCCTTTACCACCAGGGAGGGGC
GCCGGGCAGCGGCTACAACCTGGTCCAGCACGGCATCACCAACCTGTGCGTCATCGCGGGGATGGCAGCCTTA
CAGGTGCCAATCTTCCGACGAGTGGGGCAGCCTGCTGGAGGAGCTGGTGGCGGAAGGTAAGATCTCAGAGA
CTACAGCCCCGACCTACTCGCACCTGAACATCGCGGGCCTAGTGGGCTCCATCGATAACGACTTCTGCGGCACCG
ACATGACCATCGGCACGGACTCGGCCCTCCACCGCATCATGGAGGTCATCGATGCCATCACCACCACTGCCCAGA
GCCACCAGAGGACCTTCGTGCTGGAAGTGATGGGCCGCACTGCGGGTACCTGGCGCTGGTATCTGCACTGGCCT
CAGGGGCGGACTGGCTGTTTCATCCCGAGGCTCCACCCGAGGACGGCTGGGAGAACTTCATGTGTGAGAGGCTGG
GTGAGACTCGGAGCCGTGGGTCCCGACTGAACATCATCATCATCGCTGAGGGTGCCATTGACCGCAACGGGAAGC
CCATCTCGTCCAGTACGTGAAGGACCTGGTGGTTCAGAGGCTGGGCTTCGACACCCGTGTAAGTGTGCTGGGCC
ACGTGCAGCGGGGAGGGACGCCCTCTGCCTTCGACCGGATCCTGAGCAGCAAGATGGGCATGGAGGCGGTGATGG
CGTGCTGGAAGCCACGCTGACACGCCGGCCTGCGTGCTCACCTCTCGGGGAACAGTCAGTGGCGCTGCCCC
TCATGGAGTGCGTGCAGATGACCAAGGAAGTGCAAGAACCATGGATGACAAGAGGTTTGACGAGGCCACCCAGC
TCCGTGGTGGGAGCTTCGAGAACAACCTGGAACATTTACAAGCTCCTCGCCACCAGAAGCCCCCAAGGAGAAGT
CTAACTTCTCCCTGGCCATCCTGAATGTGGGGGCCCCGGCGGCTGGCATGAATGCGGCCGTGCGCTCGGCGGTGC
GGACCGGCATCTCCCATGGACACACAGTATACGTGGTGACGATGGCTTCGAAGGCCTAGCCAAGGGTCAGGTGC
AAGAAGTAGGCTGGCAGGACGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAAGAGGACCTGC
CCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTCACGCCCTGCTGGTGGTGGTGGGT
TTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCATCGTCATGTGTG
TCATCCCAGCCACCATCAGCAACAACGTCCCTGGCACCAGCTTCAGCCTGGGCTCCGACACTGCTGTAAATGCCG
CCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTTCATCGTGGAGACCATGG
GGGGTTACTGTGGCTACCTGGCCACCGTGAATGCTGTGGGGGCGGACGCCGCTACGTCTTCGAGGACC
CTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACATTAGAGGGGCC
TGGTGTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCCTGTACAACCTGTACTCATCAGAGGGCA
AGGGCGTCTTCGACTGCAGGACCAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCCTTTGACCGGA
ACTATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTGCGAGAAGCTGCGCGAGGTTTACCGCAAGGGAC
GGGTGTTGCGCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGGCGGTGGCCTTCAGCCCCGTCA
CTGAGCTCAAGAAAGACACTGATTTGAGCACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCTGCGGCTCATGC
TGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTGAGGGGAGCTGGAGCACGTGACCCGCCGCA
CCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCTCCCCAGCCCCACCCATGCCAGCGCAG
CGCCAGGGCTCAGATGGGGCCTGGGCTGTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGTCCCTGCTCAGC
CCATCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAGCCTGCCAGGCC
CTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCTGCCCAGGGGACGTGGCGCTGTCGGTGTGTTGGAG
GCTGTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCCATGCTGGGCTCACTACATGGGCCAGCC
CTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCTGGCCCTGCCTCACT
GTGACCTGCTCCTGCCACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCTGACTGTGGGGTGCATC
GGTCTCCGG

6406/6881
FIGURE 5914

GTGGCACGGGCAGGGCCCCAGTGCACAGGGATCTGGGCATGGCGAGGGGATGAGAAGCTGTGGATACAAGCCCAGG
ACATGGGGTGGCCCCGCGGGGGCTGGGAAGGCTGGCAGATGTTGGGTGTGGGTACCACCCCCCTGCAGGCGTCCT
GGCGGCCGGGTCAAGGCTGGATTGGACGTCTGGGTTCCTATGCGTGCCTCCACCCGCTACCAAGGTGGCCAACCCCT
CCCTTGAGCTGGATGCCGGCCACGTGCTTTGCTGCACGGGCTGGCGTGGCCTCGTGTGTGTGGGGGTCTCGCA
CCTTCTGTGGAAGGTGCCCTGCCTGGCATGCGCGGTGTCTGCTGCCTCATGGCTGAGCTTCCATCGGGCCGTGTG
CCTGTGACCAGCCTCCTGGGCTCTGTCACGGCTGCGCTGTGGCTGTACGCCGTGGCGCTGCAGGGCTGTGCATGG
TGTGACCCGAATCCCTTCCAGGAGCTTCGAGAACAACCTGGAACATTACAAGCTCCTCGCCACCAAGACCCCC
CAAGGAGAAGTCTAACTTCTCCCTGGCCATCCTGAATGTGGGGGGCCCCGGCGGTGGCATGAATGCGGCCGTGCG
CTCGGCGGTGCGGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCCTAGCCAA
GGGTCAAGGTGCAAGAAGTAGGCTGGCAGCAGCTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAA
GAGGACCCTGCCCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTACGCCCTGTCTGGT
GGTCGGTGGGTTTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCAT
CGTCATGTGTGCATCCCAGCCACCATCAGCAACAACGTCCCTGGCACCAGCTTCAGCCTGGGCTCCGACACTGC
TGTAATGCGGCCATGGAGAGCTGTGACCGCATCAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTCATCGT
GGAGACCATGGGGGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTTGCTGTGGGGGCCGACGCCGCTACGT
CTTCGAGGACCCTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACAT
TCAGAGGGGCTGGTGTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCTGTACAACCTGTACTC
ATCAGAGGGCAAGGGCGTCTTCGACTGCAGGACCAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCC
CTTTGACCGGAATATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTGCGAGAAGCTGCGCGAGGTTTA
CCGCAAGGGACGGGTGTTTCGCCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGGCGGTGGCCTT
CAGCCCCGTCACTGAGCTCAAGAAAGACACTGATTTGAGCACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCT
GCGGCTCATGTGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTGAGGGGAGCTGGAGCAGT
GACCCGCCGCACCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCTCCCCAGCCCCACCCA
TGCCAGCGCAGCGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGT
CCCTGCTCAGCCATCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAG
CCTGCCAGGCCCTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCCTGCCACGGGGACGTGGCGCTGTC
GGTGTGTTGAGGCTGCTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCCATGCTGGGCTCACTAC
ATGGGCCAGCCCTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCTGGC
CCTGCCTCACGTGACCTGCTCCTGCCCCAGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCCCTGACTG
TGGGTGCATCGGTCTCCGG

6407/6881
FIGURE 5915

CCGCGCAGTCGTCACCCGCCCCGGGATCAGGAGGCCGGGGCGCCCCGGTTCGGGCCTGGGCGGCCGCATGAAGC
TGACGCGGAAGATGGTTCTGACCCGAGCCAAGGCCTCGGAGCTGCACAGCGTGCACAAGCTCAACTGCTGGGGCA
GCCGCCTCACAGATATCTCCATTGCGCAGGAGATGCCAGCCTGGAGGTGATCACGCTCAGTGTCAACAGCATCT
CCACCCTGGAGCCTGTGAGCCGGTGCCAGCGCCTGAGTGAGCTGTACCTGCGGAGGAACCGCATCCCCAGCCTGG
CTGAGCTCTTCTACCTGAAGGGGCTGCCGCGTCTGCGGGTGCTGTGGCTGGCCGAGAACCCGTGCTGCGGCACCA
GCCCCACCGCTACCGCATGACCGTGCTGCGCACCTGCCGCGCCTACAGAAGCTGGACAACCAGGCTGTGACGG
AGGAGGAGCTGTCCCGTGACTGAGTGAGGGAGAGGAGATCACTGCGGCCCCAGAGAGAGAGGGGCACAGGCCACG
GCGGCCCCAAGCTATGCTGCACACTGAGCTCCCTCAGCTCCGCTGCTGAGACTGGCCGGGACCCGCTGGACAGCG
AGGAGGAGGCAACCAGCGCGGCCAGGATGAACGTGGCCTGAAGCCGCTTCCCGGGCCAGTTTCCTTCCCTCT
CAGCCAGGGATGCCTCGAGCAGCCACAGGGGCAGGAACGTCTTGACTGCCATCCTGCTGCTGCTGCGGGAGCTGG
ATGCAGAGGGGCTGGAGGCCGTGCAGCAGACTGTGGGCAGCCGGCTGCAGGCCCTGCGTGGGGAAGAGGTGCAGG
AGCACGCCGAGTGAACCGCAGGACCTGAACGCCGTCCAGCCTCCACGGGACCCAGCGTCTTCCCCAGCCCCCG
GGAGCTGGAGGGTGGCTGCCATGGCCGCAGCCCCGGCCCCACACAAAAGCCTCCCCGGTTTGCCACATCGGCCGA
GGGCAGGAGTGGGTGTTAGGTACTGGCTAACCGGGGCGGTGGAGATGCCTGTCTACACCAGTCTGTCCCCAGGA
CTCCCCCTTCTGTGGTCTGGAGGTTCTAGGCTGGCCTGGGCTCTTAAAGGGAGGATTTTGCAGGCTGTCTCCCTA
ATAAAAGATTTTCCCAAGGTTGATCTGGAGGTGACGTTTCCCAAGGCATGGTTGTGACAGTCTTCTGAAAGCAA
GGGCCGTTTCTCCACAGAATGAGGAGGTCTTACGGATGGCTTTGCCGATTCCAGCCCTTGGTCCTTGGATAGAT
TTCTGTTGGGCAAGGGAGACTTCGAGAATGCTGGCACCCATAGCGACATCTGCCCTGAGCTGCTCAGCAGGCAGG
CAGCAGCCTCCCGACCCATGGGAGAGAGTTTTGTCTTGGCCGGGCTGGGCAGGTGCGCCTTCCTTCTCTC
TCCTGTGAAGAACTGCAGGAGGGCCCTCAGCTGTGAGGTTGTGGATGAACAGGCCTGTTCGCCCTGGGGTCCGGG
CCTGGCACAGGAAGCAGCTAGACTAGGGGAGTCTTGGAGCATCTGAGAGGGGTTTTCTTCTCTGGAAGAGT
CGCAAGTCTTATGAGGATGCCACAATCTGGGCAGTGACCCGTGGCCCTGGGGACCTTCCTAGTGCCCCCAAAC
CAAGGAAGCATTACGTGAGATGGGGAGTCAGCCTTCCAGCTGGTGTGTAGGAAAGCCAGGTCCCTGGGCCCTTG
TCCCATGTGGGGTTGAGATCCAGATCTCCATGAGATATTCCCATCCTCCGCCGAGCGGTGATGCGTGACCGTGTG
TGCAGGCCGCTGTTCTCCCAAGCTCGGGGCCATGCCGTGCCACCGTCACCAGAGCCAGCTGCAGCACTGGGGCAG
CCACTGTGCGCCGACTTGGGGAAGCCCAGGGTGAAGACAGTCACTCATCCGTGCAAGCTCTCCAGAAGGGATGCA
AGCTCTCCAGAAGGGGTGTGATCTCTGAGCAGTGGGGAGTGGAGTCACTCAGGACATAGAGGGTGGACAGTT
CAGGCCTGTGTCTGCCTCCTTGGGACTGTGGAGTGGGTGCCCTCAGTAAAGCGCTTTGTTGGAATGGTAAAAAAA
AAAAAAAAAAAAA

6408/6881
FIGURE 5916

MKLTRKMVLTRAKASELHVRKLNCGSRLTDISICQEMPSLEVITLSVNSISTLEPVSRQRLSELYLRRNRIP
SLAELFYLKGLPRLRVLWLAENPCCGTSPHRYRMTVLRITLRLQKLDNQAVTEEELSRALSEGEEITAAPEREGT
GHGGPKLCCTLSSLSSAAETGRDPLDSEEEATSGAQDERGLKPPSRGQFPLSARDASSSHRGRNVLTAILLLLR
ELDAEGLEAVQQTVGSRLQALRGEEVQEHA

6409/6881
FIGURE 5917

CGCGCGGCTGAGGCGAGGTCGCTCGGCGCAGCTGTTGCGGGGCCATGGCGGGGACCGCGCTCAAGAGGCTGATGG
CCGAGTACAAACAATTAACACTGAATCCTCCGGAAGGAATTGTAGCAGGCCCATGAATGAAGAGAACTTTTTTG
AATGGGAGGCATTGATCATGGGCCCAGAAGACACCTGCTTTGAGTTTGGTGTTTTCTGCCATCCTGAGTTTCC
CACTTGATTACCCGTTAAGTCCCCCAAAGATGAGATTTACCTGTGAGATGTTTCATCCCAACATCTACCCTGATG
GGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGA
GTCCTGTGCAGAGTGTGGAGAAGATCCTGCTGTCGGTGGTGAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAG
CTAACGTGGATGCGTCCAAAATGTGGCGCGATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGA
AGTCTCTGGGACTGTGAGACCTGGCCTCGCACAGGCGCGCACACCCGCCAAGCAGCTCAGCAATCTCCCCGGC
ACACTTAGTGACAGTGATGCTCTGTGCTGGTACCAACAAGGCAGACTTGCAAGAACCATGGCATCTTTTTTTTT
TTTCAAACCTTTCTACTTCAAACAGGCTTCTCTTCTGAAATGATGACTTAATGTGCAATATTGACAGCTTACTG
CAGTTTTACAGTATTCTCACAAGGGCTTCAGGTAGATTATCAGAGCTGTCAGCACTACCTCTCCCCGCTGAAA
CCAGCAGTTTCATGGCTTCTGTGGATTCCCTCCCTCCCTGGAGTGTTGAGGGGGTTGTACCTGCCAGACTTCCAG
GGGACGATGGAATACCCAGAACGCTCCTTCTGAAGAAATGGGGCCCTGTAGCTGCAGCACAGGGGAAGGGCCCGG
CACCCTTTCTGGGTCTTCTGTGGTTCCTGTGGGCCCATGAGGAGTCCATTACTTCTTTCTTCTTCATATTT
TACAGGCAGATGCTTTTCTTATAATCTAATTACATCTTTTCATTTGTTATATATTACAAACCATCACACTTAGAA
ATACTTCCAGGAAATGCTTTTGAAGTGTGAATTAATAAGAAATGGGGTAAATAGAAAAGAAATTTATTGCTGA
TTGGCCAGGTGCGGTGGTTCGTGCCTGTAATCCAGCTCTTTGGGAGGCCAAGGCAGGTAGATCACAGGTCAGG
AAATTGAGACCATCCTGGCTAATACAGTGAAACCCCATGTCTGCTAAAATTACAAAAAATTAGCTGGGCGTGGTG
GTGCACGCCTGTAGTCTCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTAGCA
GTGAGCTGAAGTCCCGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCAGTCTCAAAAAGAAAAAGAAAT
TTATTGCTGATCACAAGGACAGACAGTTTTTTCCCGACCATACTCATCAAAGATTTACGTTTGTATATTAGTAAC
TAGTGCACTTACTAGAGCAGGTGCAGGTGAGGCTTTTAAAGTTTCAATGAAAGTTTCTTCTGGATCTACAGAAAA
ATTTTTTTTTTCAATCTAAAAACTGGAAATCTAGGGTTTTTGTACATTTTGGATGCACTGGGAATTTATTAGC
ACAAAATCATTCTTTGCAACTCAAAATTCAGAAGGGACTCTACCATACTTAGCTCAGAGCACAGAGGAGTGCCT
TATCCCCACACTTGACTGGGCTGTGGAGGTGGGCATGTGGGCCCTGGGCCCAGGCTGGGGACAGAGCCCTTGTT
TTGTGACTTAGGATTTTGATGTGGTTCCCATGTTCTCTAACAGGGCCAGCTGAGCAGCACAGGCCAGGAGGCCAC
AGTGTAAAGCAATAACAGATCTGCCACATGCAGAAGCAAATATCAGGCCTGTGCGCACAGGGCGGCATTTAAATAG
GAATTTCTATTTTGAATAAGGGATGGTCTATGAGGCATACAGTAGATTTGATGTGATCCTTTTCTCCCTCCCT
TCCATAATGGATCGTGGTCTGTGTGACTGAACCCACACAGAGTGTATGGGTGACAGTTTCTGGTTGAAGTAGCT
CCACGCCTGGCTTCTGTGGACAGCAGATTCTTTTCTTCTCACAAGGGGCTCATTTAAAATTTGGAGGCTGGGTG
CTGTGGCTCAGCCTGCAATCCAGCACTTTGGGAGACTGAGGCGGGCGGATCATGAGGTCAGGAGATCGCGACC
ATCCTGGCTAACAGTGAAACCCCTGTCTCCACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTA
GTCCAGCTACTCTGAAGACTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCACTGAGCTGAGATC
ACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAATGGAACGCAG
GGCAAGAACTCGTATTTGGAAGGAGATGGGGGAAAGGAGCGGTATTATACCTATGTTGTATTGTCAGGCAAATGA
GATGGAGCCCTCTCTGTAAAGAAGAGTCATTTGTGCAAGTAGACGGGTCTGTGGGTGACAGCCCTGGAGGGGCA
CACAATTGCCTGGAGGCTTCTGTGAGATCGGGAGAGGGAGGAGGCAGTCTCTTGACAAAATAAAGTATTTTGA
TTCATTTGTATTTATTAAATGAAAAACAATCCCATGGTGTCCCTGTTGTGTGGTGGAAACCTAATGACTGTTGAA
ATAAAGTTCGTGTTTTTCCCTGCCCTGC

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FIGURE 5918

MAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFEWALIMGPEDTCFEFGVFPAILSFPLDYPLSPPKMRFTC
EMFHPNIYPDGRVCISILHAPGDDPMGYESSAERWSPVQSVEKILLSVVSMLAEPNDESGANVDASKMWRDDREQ
FYKIAKQIVQKSLGL

6411/6881
FIGURE 5919

AGCCACGTGACCCCCGTGCCGGCCAACGGGTGCGCCGGGATTGGGGGATAAAGCGCGGCCCGCGCACAGTTGC
GGCGGGAGAGCGGCGGGGCCGAGAGCGTGACTCGCCCGCTCCGCGCTGCTTCCCCCGCGCCGCTCCCCGCGCCG
CTCGCGCAGCCATGTCCGAGGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGG
CCGGGCAGGACGGCTCCGTGGTGAGTTCAAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTACT
GCGAGAGGCAGGGCTTGTCAATGAGGCAGATCAGATTAGGTTTCGACGGGCAGCCAATCAATGAAACTGACACTC
CAGCACAGCTGGAGATGGAGGACGAGGACACCATCGACGTGTTCCAGCAGCAGACGGGAGGTGTGCCGGAGAGCA
GCCTGGCAGGGCACAGTTTCTAGAGGGCCCGTCCCCAGCCCGGGCCGTCCATCCTCGCATTGCTGTTGAATGGTG
AGCAGCTGACCATGCCGACCACAAAGGTGTCTGCGGAACTCGAGGACATTACCCACGATGATTTTCTCTCTTT
GATGTACTTTCAAGTGCAACTCAAACTATATCTGCAGGGATGAATCTGTAACCTAAATTGGGCCAATCAGAATTG
TTATCTTTGTTTCAGGTAAATGAGTTGCAAGATATTGTGGGTACTTTTGTGTGCTCATTTGTGTTTTCCCCCCT
CCTACAACATTTTTTTTAAACCCCAAATATAGCCTGAATGTTGCTTTTAGTCTGGCCAGGGATCTGACTCCTGA
GTTGTTGCTCTCTCCCTGCTCACTCCAGTCACATAGAGAATTGGTGTTCGCCAGTGGGGATGCAGCTGTTGG
ACAGGTATTGGGGGCAAGGTTGGTAGGGAGGACAGACTGTCACTTGCTGTTACAGGCACAGGTGATTAATATGCT
AAATATTGCAATTTAAGCTTTGTGAGTATATGGAAGTTGAAGGGAAATACTGGAATGCTTCTTCAAAGGTT
AAAAATAACCGAGTCTTTTGGTAATTTGACCCACGTGCTCTCTGGCCCTCAAGCATGTAACCTCGGGGTCTGA
GGCCCAGGACCCACCCCTGCCACCCCTCCACCCCACTCCCTGCTCAGTACCTGGCGTTGGTACACAGGCAAG
GATTGGCACAACCAAAATTGGCCTTTTTCTCCCTCTTAATATTGAAGAAATCCACATTTCTCATTTGGTAATG
GTGTTGTGGCCTCAGATTTCTTCTAGTATTGCTTCTGATGAATGATTATGGTCTATACATAAAAAAGTAAGACT
AAGTATTGCTGAATTTGCAGTTATGTTGTCGTGTATAAGAGCTACTTCCAAGTGTGGTTACAAATGAACCCATGG
AATGATGACTTCATGTTCTTCTCGTGGGTTGTGCCGTGCTGCTTTCCAAATAGGTATTGAATTTATGCATTAGT
CTGGTGATTTAGTTCTGTGAAATATTTGGGATCTATACCAATTAAACATTTTCATAGTTCTGCCTATTGTCCT
TCCCTGAGGCTCCATTGCTGCTTGGTGGCCATTCTCTGCCTTTTACAGTCACCTGAACAATGACCCATCATCTC
TTGCTTGCTTGAAATCTTGCTGAAATGTTCTCATTTCCTGTTTGTGTATGGGCTCGGGTGGGATGTTTGTGGC
TCTGTTGTGTTTATTACCAATTTGTACATTATTGTTGTCCTTTACTACTGTAAACAGTAAATATAGTTTGGT

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FIGURE 5920

MSEKPKKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETDTPAQL
EMEDEDTIDVFQQQTGGVPESLAGHSF

CTTGAACTCTACGCCGCCCGGAGGCGAGCCCGTTGGCGAGGGGCGGGGCAGATGGCGAGGGAGCGGGGCGAGCTG
CTTTTTGAGGCTGCGCACTCGCATGGCCCCACCTCGCAGGTCCACTTCCGGCGCCGCGGCTGTTCGGGCGGAGA
CCGCTTGTGCTGGAGTCGGAGTTGTAACGCTCCACTGACTGATAGAGCGACCGGCCGACCATGGCGCCCGGAGTG
GCCCCGGGGCCGACGCCGTA CTGGAGGTTGCGCCTCGGTGGCGCCGCGCTGCTCCTGCTGCTCATCCCGGTGGCC
GCGCGCAGGAGCCTCCCGGAGCTGCTTGTCTCAGAACACAAACAAACCTGTGAAGAGTGCCTGAAGAACGTC
TCCTGTCTTTGGTGCAACACTAACAAAGGCTTGTCTGGACTACCCAGTTACAAGCGTCTTGCCACCGGCTTCCCTT
TGTAATTGAGCTCTGCACGCTGGGGAGTTTGTGGGTGAACCTTTGAGGCGCTGATCATCACCATGTCGGTAGTG
GGGGGAACCTCCTCCTGGGCATTGCCATCTGCTGCTGCTGCTGCTGTCAGGAGGAAGAGGAGCCGGAAGCCGGAC
AGGAGTGAGGAGAAGGCCATGCGTGAGCGGGAGGAGAGGCGGATACGGCAGGAGGAACGGAGAGCAGAGATGAAG
ACAAGACATGATGAAATCAGAAAAAATATGGCCTGTTTAAAGAAGAAAACCGTATGCTAGATTGAAAACAAC
TAAAGCGCTCCAGCACATCAGTCCCAGCGCTTCTGTGAGGTGCACGCTCCGACGCCAGCCAGCCGGGAGACC
ACGTGGCCATTGCGGTCTCCTGACCTTGGCCAGTGAACCTGCCAGCCTTCCAGGACAGGCGGCCGGAGAGCTGCC
CTGAAGGACAGTCTCTCGTCTTGACACTGGTGACCTTCTATTCCCTGTTTCATCTCTGTTTCTAGATTTAGTC
ACTTGAAATAAGAAATCTTTGGGGTTTGGGCTTTTTTATACTCTTCTCAGTTTGTGAAACGCTAACTGCACACGA
AGCCGCTGACGGCACCCAGCGCTGTGCTGTCACTTCTCCAGGGCAGAACCTGCGTTTTCTCTGTGCCACTAA
CAAGCTTCACACGCAACACAGGGAAGTCGGTTGACTTTTGTTCATGAGGAGAACTGACCAGCCCTCATCATTCCT
CATAAAACCACGGACAGCGTCTGTGTGCGCATCTTGAGTCTTCACACCTGTTGACTCACACGGCTTTTGCTGATG
ACACGGGGCTCCAGTACACAGTCTGATAAGGACTTAACGTCTTAACCTCAATTGTATTAAATAGCATTGGGGAAT
AGCTAAACCTTTTTTAAAAAATTTATTGGATTTTCTCCCTGCTTAAAGATTTACCAGAAAAACCTTCATATAA
AAATTACAGGCCCTTTTGGACAATTTTTAAAAATTTGTATCTTTACTAGAACATGAGAATCTTTTCCCTTGGAAG
CTTGAATTATAAATGTGGTGTTTGGCCTGCCTCAGCAGCACCAGTTGACTGCTCGTGTGCCAGCGGTGTGGGGAG
GACGGGGCAGGACGCTGCAGCTCTCTCCAGCCCTGTTGGCATCCTCAGTGCTGTCAGGCCTCTCGCTGCCTGTTG
GGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCCACCCCAAGAAAGAAAGAAAGGCCCGTCCACA
GGCCCGGCTCTGGGCCACGTGCCCCGGAAGCAGGTGTGTCCAGAGTCAGCTGAGGGCTCTCCCCACACCACCCAG
CAGGCGCTGGTGCTCCTTCTGCCTCATGGGACCAGTCCAGCTTCCAGCCGCTCTGGCTCGAGGGTGGTCTGAGCA
CTTCCTTCTGAGTGGGCTTCTCTGGGAGCTCTCCAGTGGCACTGCTGGACCTGCCACGTTTCTGTAAATCAGG
ATACGTGGCTTTAGTAAGCAGACCAAGCGCTTCGTGGCAGGGAAAGCAGCGTGCGGGGAAGTCACTGAAAAGTGC
TGCCTAAGGAAGTTTGGAAATAGTCCCCGTTCCAGATTGCCTTGAATTTTAAACATTTTGCTTTGGGAAAGTAG
GTCAGCAGCACCTAAGATCAAGGATGCGTTCATTTTACACTTCACAGTCATGAAAACCTGAGAAGACTGCTTC
AGCGTGAACATAAGTTTACAGGCAGATCACTGATCCAGAACACTTCAAGAACTCGTCAACAGCTCGATAAGCCT
TTTTGACTGTGTACATCTGTACCGGGAATAACATTCTTAGGCTGAAATTTCCACAAAGAATAGAACCTGTACCCA
GTTCTTCAGGCTGATTTCCCTGACCTCTTGGGCATTGTATTGTAGTAAAGTATTGCAGAGATTCCCTAAGTATT
TTATAGCAGCCATCAAAATTGGACTTTGTATTGTTTATTATATAAAAGACACTTGGTAATAGACTTCAGGTGAAC
TGATGAATGCAGTAGTGTGCGTGCAAAATCCGCTTCCTGAGCGTAGGGTGCTGAGCTGGCGCTAGGCTCGGTT
GTGAAATACAGCTAGTCAGCCCTTGCGCTCAGTGTAGAAACCCACGCTGTGAAGGTGCGTCTTCGTCCATCTGC
TTTTTTCTGAAATACACTAAGAGCAGCCACAAAACCTGTAACCTCAAGGAAACCATAAAGCTTGGAGTGCCTTAAT
TTTTAACAGTTTCCAATAAAACGGTTTACTACCTGA

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FIGURE 5922

MAPGVARGPTPYWRLRLGGAALLLLIPVAAAEPPGAACSQNTNKTCEECLKNVSLWCNTNKACLDYPVTSVL
PPASLCKLSSARWVCWVNFEALIIITMSVVGTTLLGIAICCCCCRRKRSRKPDRSEEKAMREREERRIRQEER
RAEMKTRHDEIRKKYGLFKEENPYARFENN

6415/6881
FIGURE 5923

TGTCAGGACTTTACGACCCGCGCCTCCAGCTGAGGTTTCTAGACGTGACCCAGGGCAGACTGGTAGCAAAGCCCC
CACGCCCAGCCAGGAGCACCGCCGAGGACTCCAGCACACCGAGGGACATGCTGGGCCTGCGCCCCCACTGCTCG
CCCTGGTGGGGCTGCTCTCCCTCGGGTGCCTCTCTCAGGAGTGACGAAGTTCAAGGTGACGAGCTGCCGGG
AATGCATCGAGTCGGGGCCCGCTGCACCTGGTGCCAGAAGCTGAACCTTACAGGGCCGGGGGATCCTGACTCCA
TTCGCTGCGACACCCGGCCACAGCTGCTCATGAGGGGCTGTGCGGCTGACGACATCATGGACCCCAAGCCTCG
CTGAAACCCAGGAAGACCACAATGGGGGCCAGAAGCAGCTGTCCCAACAAAAGTGACGCTTTACCTGCGACCAG
GCCAGGCAGCAGCGTTCAACGTGACCTTCCGGCGGGCCAAGGGGTACCCCATCGACCTGTACTATCTGATGGACC
TCTCCTACTCCATGCTTGATGACCTCAGGAATGTCAAGAAGCTAGGTGGCGACCTGCTCCGGGGCCCTCAACGAGA
TCACCGAGTCCGGCCGATTGGCTTCGGGTCTTCGTGGACAAGACCGTGCTGCCGTTTCGTGAACACGCACCCCTG
ATAAGCTGCGAAACCCATGCCCCAACAGGAGAAAGAGTGCCAGCCCCGTTTGCCTTCAGGCACGTGCTGAAGC
TGACCAACAACCTCAACAGTTTCAGACCGAGGTGCGGAAGCAGCTGATTTCCGGAAACCTGGATGCACCCGAGG
GTGGGCTGGACCCATGATGCAGGTGCGCCGCTGCCCGGAGGAAATCGGCTGGCGCAACGTACGCGGCTGCTGG
TGTTTGCCACTGATGACGGCTTCCATTTGCGGGGCGACGGGAAGCTGGGCGCCATCCTGACCCCCAACGACGGCC
GCTGTACCTGGAGGACAACCTGTACAAGAGGAGCAACGAATTCGACTACCCATCGGTGGGCGCAGCTGGCGCACA
AGCTGGCTGAAAACAACATCCAGCCCATCTTCGCGGTGACCAAGTAGGATGGTGAAGACCTACGAGAAACTCACCG
AGATCATCCCCAAGTCAGCCGTGGGGGAGCTGTCTGAGGACTCCAGCAATGTGGTCCAACTCATTAAAGATGCTT
ACAATAAATCTCCTCCAGGGTCTTCCTGGATCACAACGCCCTCCCGACACCCTGAAAGTCACCTACGACTCCT
TCTGCAGCAATGGAGTGACGCACAGGAACCAGCCCAGAGGTGACTGTGATGGCGTGCAGATCAATGTCCCGATCA
CCTTCCAGGTGAAGGTACGCGCCACAGAGTGATCCAGGAGCAGTCGTTTGTATCCGGGCGCTGGGCTTCACGG
ACATAGTGACCGTGACGGTTCTTCCCCAGTGTGAGTGCCGGTGCCGGGACCAGAGCAGAGACCGCAGCCTCTGCC
ATGGCAAGGGCTTCTTGGAGTSCGGCATCTGCAGGTGTGACACTGGCTACATTGGGAAAAACTGTGAGTGCCAGA
CACAGGGCCGGAGCAGCCAGGAGCTGGAAGGAAGCTGCCGGAAGGACAACAACCTCCATCATCTGCTCAGGGCTGG
GGGACTGTGTCTGCGGGCAGTGCTGTGCCACACCAGCGACGTCCCCGGCAAGCTGATATACGGGCAGTACTGCG
AGTGTGACACCATCAACTGTGAGCGCTACAACGGCCAGGTCTGCGGCGGCCCGGGGAGGGGGCTCTGCTTCTGCG
GGAAGTGCCGCTGCCACCCGGGCTTTGAGGGCTCAGCGTGCCAGTGCGAGAGGACCACTGAGGGCTGCCTGAACC
CGCGGCGTGTGTAGTGTAGTGGTCTGTCGGCGGTGCCGCTGCAACGTATGCGAGTGCCATTACGGCTACCAGCTGC
CTCTGTGCCAGGAGTGCCCCGGCTGCCCCCTACCCCTGTGGCAAGTACATCTCCTGCGCCGAGTGCCCTGAAGTTCTG
AAAAGGGCCCCCTTTGGGAAGAACTGCAGCGCGGCGTGTCCGGGCTGCAGCTGTGCAACAACCCCGTGAAGGGCA
GGACCTGCAAGGAGAGGGACTCAGAGGGCTGCTGGGTGGCCTACACGCTGGAGCAGCAGGACGGGATGGACCGCT
ACCTCATCTATGTGGATGAGAGCCGAGAGTGTGTGGCAGGCCCAACATCGCCGCCATCGTCGGGGGCACCGTGG
CAGGCATCGTGTGATCGGCATTCTCCTGCTGGTCATCTGGAAGGCTCTGATCCACCTGAGCGACCTCCGGGAGT
ACAGGCGCTTTGAGAAGGAGAAGCTCAAGTCCCAGTGGAAACAATGATAATCCCCTTTTCAAGAGCGCCACCACGA
CGGTCATGAACCCCAAGTTTGCTGAGAGTTAGGAGCACTTGGTGAAGACAAGGCCGTCAGGACCCACCATGTCTG
CCCCATCAGCGCGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTCACCAATTAACCAGAAATCCAGTTATTT
TCCGCCCTCAAAATGACAGCCATGGCCGGCCGGGTGCTTCTGGGGGCTCGTCGGGGGACAGCTCCACTCTGACT
GGCACAGTCTTTGTCATGGAGACTTGAGGAGGGAGGGCTTGAGGTTGGTGAGGTTAGGTGCGTGTTTCTGTGCAA
GTCAGGACATCAGTCTGATTAAAGGTGGTGCCAATTTATTTACATTTAAACTTGTGAGGGTATAAAATGACATCC
CATTAAATTATATTGTTAATCAATCACGTGTATAGAAAAAAATAAACTTCAATACAGGCTGTCCATGG

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FIGURE 5924A

AGCTCCAGCCGCACTGCCCGATGGCTCCCTACCCCTGTGGCTGCCACATCCTGCTGCTGCTCTTCTGCTGCCTG
GCGGCTGCCCGGCCAACCTGCTGAACCTGAACTGGCTTTGGTTCAATAATGAGGACACCAGCCATGCAGCTACC
ACGATCCCTGAGCCCCAGGGGCCCTGCTGTGCAGCCACAGCAGATACCACCACACACGTGACCCCCCGGAAT
GGTTCACAGAGCCAGCGACAGCCCTGGCAGCCCTGAGCCACCCTCAGAGCTGCTGGAAGATGGCCAGGACACC
CCCACTTCTGCCGAGAGCCCGGACGCGCCAGAGGAGAACATTGCCGGTGTCCGAGCCGAGATCCTGAACGTGGCC
AAAGGCATCCGGAGCTTCGTCCAGCTGTGGAATGACACTGTCCCACTGAGAGCTTGGCCAGGGCGGAAACCTTG
GTCCTGGAGACTCCTGTGGGGCCCCCTGCCCTCGCTGGGCCTTCCAGCACCCCCCAGGAGAATGGGACCACTCTC
TGGCCAGCCGTGGCATTCTAGCTCTCCGGGCGCCACACAACCGAGGCTGGCACCTTGCTGCACCCACCCCA
TCGCTCCCTCCCTGGGCAGGCCCTGGGCACCACTACGGGGCCCTCAGTGCCACCACCATCTTCAGAGCGCATC
AGCGAGGAGGTGGGGCTGCTGCAGCTCCTTGGGGACCCCCCGCCAGAGGTACCCAGACGGATGACCCGAC
GTCGGGCTGGCTACGTCTTTGGGCCAGATGCCAACAGTGGCCAAGTGGCCCGGTACCACTTCCCCAGCCTCTTC
TTCCGTGACTTCTACTGCTGTTCCACATCCGGCCAGCCACAGAGGGCCAGGGGTGCTGTTGCCATCACGGAC
TCGGCGCAGGCCATGGTCTTGCTGGGCGTGAAGCTCTCTGGGGTGCAGGACGGGCACCAGGACATCTCCCTGCTC
TACACAGAACCAGGTGCAGGCCAGCCACACAGCCGCCAGCTTCCGGCTCCCCGCCCTTCGTGGCCAGTGGACA
CACTTAGCCCTCAGTGTGGCAGGTGGCTTTGTGGCCCTCTACGTGGACTGTGAGGAGTTCAGAGAATGCCGCTT
GCTCGGCTCTCACGGGCGCTGGAGCTGGAGCCTGGCGCCGGGCTCTTCGTGGCTCAGGCGGGGGAGCGGACCT
GACAAGTTCCAGGGGGTGATCGCTGAGCTGAAGGTGCGCAGGGACCCCCAGGTGAGCCCCATGCACTGCCTGGAC
GAGGAAGCGATGACTCAGATGGGGCATCCGGAGACTCTGGCAGCGGGCTCGGGGACGCCCGGGAGCTTCTCAGG
GAGGAGACGGGCGCGGCCCTAAAACCCAGGCTCCCCGCGCCACCCCCCGTCACCACGCCACCCCTTGGCTGGAGGC
AGCAGCACGGAAGATTCCAGAAGTGAAGAAGTCGAGGAGCAGACCACGGTGGCTTCGTTAGGAGCTCAGAACTT
CCTGGCTCAGATTCTGTCTCCACGTGGGACGGGAGTGTCCGGACCCCTGGGGGCCGCGTGAAAGAGGGCGGCTG
AAGGGGCAGAAAGGGGAGCCAGGTGTTCCGGCAGGGCCTCCGGGGAGGGACGGCACCCCTGGAAGGGACGGCGAG
CCGGGCGACCCCGGTGAAGACGGAAGCCGGGCGACACCGGGCCACAAGGCTTCCCCGGGACTCCAGGGGACGTA
GGTCCCAAGGGCGACAAGGGAGACCCTGGGGTTGGAGAGAGAGGGCCCCCAGGACCCCAAGGGCCTCCAGGGCCC
CCAGGACCCCTCCTTCAGACACGACAAGCTGACCTTCATTGACATGGAGGGATCTGGCTTCGGGGCGCATCTGGAG
GCCCTGCGGGGTCTCGAGGCTTCCCTGGACCTCCCGGACCCCCCGGTGTCCAGGCCCTGCCCGGCGAGCCAGGC
CGCTTTGGGGTGAACAGCTCCGACGTCCAGGACCCCGCGGCCTTCTGGTGTGCTGGGCGCGAGGGTCCCCC
GGGTTTCTGGCCTCCCGGACCCCCAGGCCCTCCGGGAAGAGAGGGGCCCCCAGGAAGGACTGGGCAGAAAGGC
AGCCTGGGTGAAGCAGGCGCCCCAGGACATAAGGGGAGCAAGGGAGCCCCCGGTCTCTGCTGGTGCTCGTGGGGAG
AGCGGCCTGGCAGGAGCCCCCGACCTGCTGGACCACAGGCCCCCCCTGGGCCCCCTGGGCCCCCAGGACCAGGA
CTCCCCGCTGGATTGATGACATGGAAGGCTCCGGGGGGCCCTTCTGGTCAACAGCCCCGAAGCGCTGATGGGCCA
CAGGGACCTCCCGGCCTGCCGGGACTTAAGGGGGATCCTGGCGTGCTGGGCTGCCGGGGGCGAAGGGAGAAGTT
GGAGCAGATGGAGTCCCGGGTTCCCGGCCTCCTGGCAGAGAGGGCATTGCTGGGCCCCAGGGGCCAAAGGGA
GACAGAGGCAGCCGGGGAGAAAGGGAGATCCAGGGAAGGACGGAGTCGGGCAGCCGGGCTCCTGGCCCCCCC
GGACCCCGGGACCTGTGGTCTACGTGTGCGAGCAGGACGGATCCGCTCTGAGCGTGCCGGGACCTGAGGGCCGG
CCGGGTTTCGAGGCTTTCCCGGACCTGCAGGACCAAGGGCAACCTGGGCTCTAAGGGCGAAGCAGGCTCCCCG
GGACCCAAGGGTGAGAAGGGTGAACCGGGCAGCATCTTCAGCCCCGACGGCGGTGCCCTGGGCCCTGCCAGAAA
GGAGCCAAGGTGAGGGCCGGGCTTCGAGGACCCCCGGGTCCATACGGACGGCCGGGTACAAGGGAGAGATTGG
CTTTCCTGGACGGCCGGGTGCCCCGGGATGAACGGATTGAAAGGAGAGAAAGGGGAGCCGGGAGATGCCAGCCT
TGGATTGGCATGAGGGGAATGCCCGGCCCCCAGGACCTCCAGGGCCCCCAGGCCCTCCAGGGACTCCTGTTTA
CGACAGCAATGTGTTTGTGAGTCCAGCCGCCCGGGCCTCCAGGATTGCCAGGGAATCAGGGCCCTCCAGGACC
CAAGGGCGCCAAAGGAGAAGTGGGCCCCCCCCGGACACAGGGCAGTTTCCGTTTGACTTTCTTCAGTTGGAGGC
TGAAATGAAGGGGGAGAAGGGAGACCGAGGTGATGCAGGACAGAAAGGCGAAAGGGGGGAGCCCGGGGGCGCGG
TTTCTTCGGCTCCAGCCTGCCCGGCCCCCCCCGGCCCCCAGGCCCCCAGGCCACGTGGCTACCTTGGGATTCC
AGGTCCCAAGGGAGAGAGCATCCGGGGCCAGCCCGGCCACCTGGACCTCAGGACCCCCCGGCATCGGCTACGA
GGGGCGCCAGGGCCCTCCCGGCCCCCAGGCCCCCAGGGCCCCCTTCATTTCCTGGCCCTCACAGGCAGACTAT
CAGCGTTCGGGCCCCCTCCGGGCCCCCTGGGCCCCCTGGGCCCCCTGGAACCATGGGCGCCTCCTCAGGGGTGAG
GCTCTGGGCTACACGCCAGGCCATGCTGGGCCAGGTGCACGAGGTTCCCGAGGGCTGGCTCATCTTCGTGGCCGA

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FIGURE 5924B

GCAGGAGGAGCTCTACGTCCGCGTGCAGAACGGGTTCCGGAAGGTCCAGCTGGAGGCCCGGACACCACTCCCACG
AGGGACGGACAATGAAGTGGCCGCCTTGCAGCCCCCGTGGTGCAGCTGCACGACAGCAACCCCTACCCGCGGCG
GGAGCACCCCCACCCACCGCGCGGCCCTGGCGGGCAGATGACATCCTGGCCAGCCCCCTCGCCTGCCCGAGCC
CCAGCCCTACCCCGGAGCCCCGCACCACAGCTCCTACGTGCACCTGCGGCCGGCGCGACCCACAAGCCCACCCGC
CCACAGCCACCGCGACTTCCAGCCGGTGTCCACCTGGTTGCGCTCAACAGCCCCCTGTGAGCGGCATGCGGGG
CATCCGCGGGGCCGACTTCCAGTGTCTCCAGCAGGCGCGGCCGTGGGGCTGGCGGGCACCTTCCGCGCCTTCCT
GTCCTCGCGCCTGCAGGACCTGTACAGCATCGTGCGCCGTGCCGACCGCGCAGCCGTGCCCATCGTCAACCTCAA
GGACGAGCTGCTGTTTCCAGCTGGGAGGCTCTGTTCTCAGGCTCTGAGGGTCCGCTGAAGCCCGGGGCACGCAT
CTTCTCCTTTGACGGCAAGGACGTCTTGAGGCACCCACCTGGCCCCAGAAGAGCGTGTGGCATGGCTCGGACCC
CAACGGGCGCAGGCTGACCGAGAGCTACTGTGAGACGTGGCGGACGGAGGCTCCCTCGGCCACGGGCCAGGCCTC
CTCGTGCTGGGGGGCAGGCTCCTGGGGCAGAGTGCCGCGAGCTGCCATCACGCTACATCGTGCTCTGCATTGA
GAACAGCTTCATGACTGCCTCCAAGTAGCCACCGCCTGGATGCGGATGGCCGGAGAGGACCGCGGCTCGGAGGA
AGCCCCACCGTGGGCAGGAGCGGCCGGCCAGCCCCCTGGCCCCAGGACCTGGCTGCCATACTTTCCTGTATAGT
TCACGTTTCATGTAATCCTCAAGAAATAAAAGGAAGCCAAAGAGTGTATTTTTTTAAAGTTTAAACAGAAGCC
TGATGCTGACATTACCTGCCCCAACTCTCCCTGACCTGTGAGCCCAGCTGGGTGAGGCAGGCTGAGTATCAT
GCCCTGTGCAACCTCTTGGCCTGATCAGACCACGGCTCGATTCTCCAGGATTTCCTGCTTTGGGAAGCCGTGCT
CGCCCCAGCAGGTGCTGACTTCATCTCCACCTAGCAGCACCGTTCTGTGCACAAAACCCAGACCTGTAGCAGA
CAGGCCCCGTGAGGCAATGGGAGCTGAGGCCACACTCAGCACAAAGGCCATCTGGGCTCCTCCAGGGTGTGTGCTC
GCCCTGCGGTAGATGGGAGGGAGGCTCAGGTCCCTGGGGCTAGGGGGAGCCCCCTTCTGCTCAGCTCTGGGCCATT
CTCCACAGCAACCCAGGCTGAAGCAGGTTCCCAAGCTCAGAGGCGCACTGTGACCCCACTCCGCGCTGTCTCT
CCAACACCAAGCACAGCAGCCTGGGGCTGGCCTCCCAATGAGCCATGAGATGATACATCCAAGCAGACAGCTC
CACCTTGGCCGAGTCCAAGCTGGGAGATTCAAGGGACCCATGAGTTGGGGTCTGGCAGCCTCCCATCCAGGGCCC
CCATCTCATGCCCCCTGGCTGGGACGTGGCTCAGCCAGCACTTGTCCAGCTGAGCGCCAGGATGGAACACGGCCAC
ATCAAAGAGGCTGAGGCTGGCACAGGACATGCGGTAGCCAGCACACAGGGCAGTGAGGGAGGGCTGTCTCTGTG
CACTGCCCATGGACAGGCTGGCTCCAGATGCAGGGCAGTCATTGGCTGTCTCCTAGGAAACCCATATCCTTACCC
TCCTTGGGACTGAAGGGGAACCCCGGGGTGCCACAGGCCGCCCTGCGGGTGAACAAAGCAGCCACGAGGTGCAA
CAAGGTCTCTGTGAGTCACAGCCACCCCTGAGATCCGGCAACATCAACCCGAGTCATTGTTCTGTGGAGGGAC
AAGTGGACTCAGGGCAGCGCCAGGCTGACCACAGCACAGCCAACACGCACCTGCCTCAGGACTGCGACGAAACCG
GTGGGGCTGGTTCTGTAATTGTGTGTGATGTGAAGCCAATTCAGACAGGCAAATAAAAGTGACCTTTTACACTG

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FIGURE 5925

GGCCGTTGAGGAGGTGCAGGGAGAGGAGCGGGAGGGCTCTGGGTGGCTGCCAAGGGGGAGCTCTGCGCTCAGACC
CTCAACTAAGACCAGGAGGTGCCTGATGAGGCCCCAGCCTGCAGAGCCAGCTCCTGGTGGAAGAGGAAATGAGGC
ATGCTCCATTTCATTCGGAGGTACGAACGAGATCACGCCGGTGCTGTCTGCTACTCCTACCTGGCCGTGCTGGTGCC
CGTGTTCTCTGCTCACCAGCTACCTGCGCTACACGCCGGTGCTGCTGCTGCAGGGGCTCAGCTTCGTGTGGGTGTG
GCTGCTGCTGCTGCTGGGCCACTCGGTGGCGCACATGCAGCTCATGGAGCTCTTCTACAGCGTCACCATGGCCGC
GCGCATCGCCTATTCCTCCTACATCTTCTCTCTCGTGCGGCCCGCGCGCTACCAGCGTGTGGCCGGCTACTCGCG
CGCTGCGGTGCTGCTGGGCGTGTTACCAGCTCCGTGCTGGGCCAGCTGCTGGTCACTGTGGGCCGAGTCTCCTT
CTCCACGCTCAACTACATCTCGCTGGCCTTCCTCACCTTCAGCGTGGTCCTCGCCCTCTTCCTGAAGCGCCCCAA
GCGCAGCCTCTTCTTCAACCGCGACGACCGGGGGCGGTGCGAAACCTCGGCTTCGGAGCTGGAGCGCATGAATCC
TGGCCCAGGCGGGAAGCTGGGACACGCCCTGCGGGTGCCCTGTGGGGACTCAGTGCTGGCGCGGATGCTGCGGGA
GCTGGGGG

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FIGURE 5926A

CACTCTGGCTGGGAGCAGAAGGCAGCCTCGGTCTCTGGGCGGCGGCGGCGGCCACTCTGCCCTGGCCGCGCTGT
GTGGTGACCGCAGGCCCCAGACATGAGGGCGGCGCGTGTCTGTCTGCCCTGTCTGTGTCAGGCGCTGTGGACAGC
CGCGCAGGATGAGCCGGAGACCCCGAGGGCCGTGGCCTTCCAGGACTGCCCGTGGACCTGTTCTTTGTGTGGA
CACCTCTGAGAGCGTGGCCCTGAGGCTGAAGCCCTACGGGGCCCTCGTGGACAAAGTCAAGTCTTCCACCAAGCG
CTTCATCGACAACCTGAGGGACAGGTACTACCGCTGTGACCGAAACCTGGTGTGGAACGCAGGCGCGCTGCACTA
CAGTGACGAGGTGGAGATCATCCAAGGCCTCACGCGCATGCCTGGCGGCCGCGACGCACTCAAAAGCAGCGTGGA
CGCGGTCAAGTACTTTGGGAAGGGCACCTACCCGACTGCGCTATCAAGAAGGGGCTGGAGCAGCTCCTCGTGGG
GGGCTCCACCTGAAGGAGAATAAGTACCTGATTGTGGTGACCGGCGGCGACCCCTGGAGGGCTACAAGGAACC
CTGTGGGGGGCTGGAGGATGCTGTGAACGAGGCCAAGCACCTGGGCGTCAAAGTCTTCTCGGTGGCCATCACACC
CGACCACCTGGAGCCGCGTCTGAGCATCATCGCCACGGACCACACGTACCGGCGCAACTTCACGGCGGGTGA CTG
GGGCCAGAGCCGCGACGCAGAGGAGGCCATCAGCCAGACCATCGACACCATCGTGGACATGATCAAAAATAACGT
GGAGCAAGTGTGCTGCTCCTTCGAATGCCAGCCTGCAAGAGGACCTCCGGGGCTCCGGGGCGACCCCGGCTTTGA
GGGAGAACGAGGCAAGCCGGGGCTCCAGGAGAGAAGGGAGAAGCCGGAGATCCTGGAAGACCCGGGGACCTCGG
ACCTGTTGGGTACCAGGGAATGAAGGGAGAAAAGGGAGCCGTGGGGAGAAGGGCTCCAGGGGACCAAGGGCTA
CAAGGGAGAGAAGGGCAAGCGTGGCATCGACGGGGTGGACGGCGTGAAGGGGGAGATGGGGTACCCAGGCGCTGCC
AGGCTGCAAGGGCTCGCCCGGTTTGACGGCATTCAAGGACCCCTGGCCCCAAGGGAGACCCCGGTGCCCTTGG
ACTGAAAGGAGAAAAGGGCGAGCCTGGAGCTGACGGGGAGGCGGGGAGACCAGGGAGCTCGGGACCATCTGGAGA
CGAGGGCCAGCCGGGAGAGCCTGGGCCCCCGGAGAGAAAGGAGAGGCGGGCGACGAGGGGAACCCAGGACCTGA
CGGTGCCCCCGGGGAGCGGGTGGCCCTGGAGAGAGAGGACCAGGGGGACCCAGGCACGCGGGGACCAAGAGG
AGACCTGGTGAAGCTGGCCCGCAGGGTGATCAGGGAAGAGAAGGCCCGTGGTGTCCCTGGAGACCCGGGCGA
GGCTGGCCCTATCGGACCTAAAGGCTACCGAGGCGATGAGGGTCCCCAGGGTCCGAGGGTGCCAGAGGAGCCCC
AGGACCTGCCGACCCCTGGAGACCCGGGGCTGATGGGTGAAAGGGGAGAAGACGGCCCCGCTGGAATGGCAC
CGAGGGCTTCCCCGGCTTCCCCGGGTATCCGGGCAACAGGGGCGCTCCCGGGATAAACGGCACGAAGGGCTACCC
CGGCCTCAAGGGGGACGAGGGAGAAGCCGGGGACCCCGGAGACGATAACAACGACATTGCACCCCGAGGAGTCAA
AGGAGCAAAGGGGTACCGGGTCCCGAGGGCCCCAGGGACCCCGAGGACACCAAGGACCGCCTGGGCCGGACGA
ATGCGAGATTTTGGACATCATGAAAATGTGCTCTTGCTGTGAATGCAAGTGC GGCCCCATCGACCTCCTGTT
CGTGTGACAGCTCAGAGAGCATTGGCTGCAGAACTTCGAGATTGCCAAGGACTTCGTGTCAGGTTCATCGA
CCGGCTGAGCCGGGACGAGCTGGTCAAGTTCGAGCCAGGGCAGTCTGACGCGGTGTGGTGCAGTACAGCCACAG
CAGATGACAGGAGCACGTGAGCCTGCGCAGCCCCAGCATCCGGAACGTGACAGGAGCTCAAGGAAGCCATCAAGAG
CCTGCAGTGGATGGCGGGCGGCACCTTCACGGGGGAGGCCCTGCAGTACACGGGGACCACTGCTGCCGCCAG
CCCCAACACCCGCATCGCCCTGGTTCATCACTGACGGGCGCTCAGACACTCAGAGGGACACCACACCGCTCAACGT
GCTCTGCAGCCCCGGCATCCAGGTGGTCTCCGTGGGCATCAAAGACGTGTTTGACTTCATCCAGGCTCAGACCA
GCTCAATGTCAATTTCTTGCCAAGGCCTGGCACCATCCCAGGGCCGGCCCGGCTCTCGCTGGTCAAGGAGAACTA
TGCAGAGCTGCTGGAGGATGCCTTCTTGAAGAATGTACCGCCAGATCTGCATAGACAAGAAGTGTCCAGATTA
CACCTGCCCCATCACGTTCTCTCCCGGCTGACATCACCATCCTGCTGGACGGCTCCGCCAGCGTGGGCAGCCA
CAACTTTGACACCACCAAGCGCTTCGCCAAGCGCCTGGCCGAGCGCTTCTCACAGCGGGCAGGACGGACCCCGC
CCACGACGTGCGGGTGGCGGTGGTGCAGTACAGCGGCACGGGCCAGCAGCGCCAGAGCGGGCGTCTGCTGCAGTT
CCTGCAGAACTACACGGCCCTGGCCAGTGCCGTGATGCCATGGACTTTATCAACGACGCCACCGACGTCAACGA
TGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCCTGTCGGCGCTGCCAAGAAGAGGCTGTGCTCTTCTC
AGATGGCAACTCGCAGGGCGCCACGCCCGCTGCCATCGAGAAGGCCGTGCAGGAAGCCAGCGGGCAGGCATCGA
GATCTTCGTGGTGGTGGTGGGCCCGCCAGGTGAATGAGCCCCACATCCGCGTCTGGTCAACGGCAAGACGGCCGA
GTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTGTCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCA
CCAGACAGTCTCCAGGAAGGTGGCGTGGGCTAGCCACCTGCACGCGGCACCAAACCTGTCTCTCCACCCC
TCCCCTCATCACTAAACAGAGTAAAATGTGATGCGAATTTCCCGACCAACCTGATTGCTAGATTTTTTTTA
AGGAAAAGCTTGGAAGCCAGGACACAACGCTGCTGCTGCTTTGTGAGGGTCTCCGGGGCTCAGCCCTGAGT
TGGCATCACCTGCGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTAGTGTCACTGCACAGGGCCCTCTGAGGCTCA
GCCCTGAGCTGGCGTCACTGTGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTGGCCTCACTGGGTTCCTCCACCC
CGGGCTCTCTGCCCTGCCCTCCTGCCCGCCCTCCCTCCTGCTGCGCAGTCTCTCCCTAGGCACCTCTGTGCT

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FIGURE 5926B

GCATCCCACCAGCCTGAGCAAGACGCCCTCTCGGGGCCTGTGCCGCACTAGCCTCCCTCTCCTCTGTCCCCATAG
CTGGTTTTTCCCACCAATCCTCACCTAACAGTTACTTTACAATTAACTCAAAGCAAGCTCTTCTCCTCAGCTTG
GGGCAGCCATTGGCCTCTGTCTCGTTTTGGGAAACCAAGGTCAGGAGGCCGTTCAGACATAAATCTCGGCGACT
CGGCCCCGTCTCCTGAGGGTCCTGCTGGTGACCGGCTGGACCTTGGCCCTACAGCCCTGGAGGCCGCTGCTGAC
CAGCACTGACCCCGACCTCAGAGAGTACTCGCAGGGGCGCTGGCTGCACTCAAGACCCTCGAGATTAAACGGTGCT
AACCCCGTCTGCTCCTCCCTCCCGCAGAGACTGGGGCCTGGACTGGACATGAGAGCCGCTTGGTGCCACAGAGGG
CTGTGTCTTACTAGAAACAACGCAAACCTCTCCTTCCTCAGAAATAGTGATGTGTTTCGACGTTTTATCAAAGGCC
CCTTTCTATGTTTCATGTTAGTTTTGCTCCTTCTGTGTTTTTTCTGAACCATATCCATGTTGCTGACTTTTCCAA
ATAAAGGTTTTCACTCCTC

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FIGURE 5927

TGCTGTGGAACTCTTCTGGGGCCCCGGGGGGGACTACCCTGCCTGCCGTGTGCATTGCAGGAGTGTGACGTCATG
ACCTACGTGAGGGAGACCTGCGGGTGCTGCGGTGAGGCACTGCCCACGGCAGGGTCGGGGCCCATGCACCGGGTG
GAGGGCGGGAGTGCAGCAGGGCTGGGTTCATCGCTGGGTCTGCATGTGCACGTGACCCTAGGGTCTGAGGTCTCC
CCGGTACCCCCCGATGACCCTGCCACCCCCCAGACTGTGAGAAGCGCTGTGGCGCCCTGGACGTGGTCTTCGTC
ATCGACAGCTCCGAGAGCATTGGGTACACCAACTTCACACTGGAGAAGAAGTTCGTTCATCAACGTGGTCAACAGG
CTGGGTGCCATCGCTAAGGACCCCAAGTCCGAGACAGGTGAGCGGGGAGGGGCGGGTGCAGCATTGCGGGGGGC
CGGGCGGGGCGTGGGAGGCGATGAGATGGGAGAAGTCCAGACGCGTCCCTCCAACGAGGGCCCTCTGCATGGCTGG
GGATGCCCCAGACCCCGAGGCCTCTGGCAACGACCTACGCGTGCAGGCTTGAGGGACGCGTGTGGGCGTGGTGC
AGTACAGCCACGAGGGCACCTTTGAGGCCATCCAGCTGGACGACGAACGTATCGACTCCCTGTGAGCTTCAAGG
AGGTGTCAAGAACCTCGAGTGGATTGCGGGCGGCACCTGGACACCCTCAGCCCTCAAGTTTGCTACGACCGCC
TCATCAAGGAGAGCCGGCGCCAGAAGACACGTGTGTTTGGCGTGGTTCATCACGGACGGGCGCCACGACCCTCGGG
ACGATGACCTCAACTTGCGGGCGCTGTGCGACCGCGACGTACAGTGACGGCCATCGGCATCGGGGACATGTTCC
ACGAGAAGCACGAGAGTGAAAACCTCTACTCCATCGCCTGCGACAAGCCACAGCAGGTGCGCAACATGACGCTGT
TCTCCGACCTGGTTCGTGAGAAGTTTCATCGATGACATGGAGGACGTCTCTGCCCCGGGTGAGCGTGTGGGCGCGG
GGCAGTTCGGCCGAGGAGCAGCAGGCCCCAGCCGCTGTCTAGCGTGAGCCCCAGGGACACCCCTCACCTGAGGGAT
GAATGTGCAGCCAGGATCTTGGGCTGTGGGTGGGAAGGGGTTCGGGCCCTCTCGGGGCTGCAGGGCAGAGGCCAG
CTGCACCCTGAGCCTGTCTAGGCAGATCAGTGAACGGCCGCTGAGGGTTCGCTAGGGACTGACCCCTGGCCTGGCC
CGGCCTCTCTCTCTCTTCCAGACCCTCAGATCGTGTGCCAGACCTTCCCTGCCAAACAGGTAATGCAGGGCAC
CCTGAGCCACCACCCACAGACTAGCAAAGCAGCCCTGGTGTCTTCTCTCTCGAGGGCCGGGCTGGGGGAGGGGCC
GTGCAGGGACCCGGGGGCGGGCGGAGCCACTGCGGAGGCTGCTCCTTAGGGAGATGGCCCCAGGATGGCAGCACA
GGGGAGGAGGGGCTTGGGGAAGGCAGGCTCCCAGGAACGCAGGAACAGCATCACGAGGCCATGAGGTGGGTGCTG
CTAGCCTGGCGCTGTGCTCGGCATGTGGCCACTGGTCTTGAAGGCCCACCATGGGCCTTGCACTCTCCCTCAGCT
GCCGCCAGCTCCCATGGGCTGGCCGTGCATGTGCCACTCGGAGGAAGCCCTGGATTAGTGAGTGAAACCATCC
CGGGGTGGAAGCACTGACACCCCCAGCACCAGCAGGTCTTGCTCCAACCCTGGCCTGCCTCGGAGCTGCAGCTG
CGGCTCTCACATCTCTGGGAGTGGGGGAGCCCATGTCCCGATGTGGCCACGTGGGTGTGAAGCTGGAGCTGGG
GGTGGCGTCCAGGCTCTGCTGGACGTGGTGTGCCCCATGGTGCAGTGTGACCCGTACCTGGGCCACAGGAG
GTCCCCGGGGCGTTAGGAGCTGAGTCCCCCTCAGTGAGCCGTCCCTCCAGGAGTGTGAGGGTAGGGATGCCAT
GGAGACAGGGTGGGAGGGTCCGACCTGGAGGACCACAGGGAGGAAACCTCAGGGTCTGCGGTACGAAGTCAGCGC
TTCCTCAGCACGCGGTTCGCGGTGTGCGTTTCGGGCGTTCATGGGGAG

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FIGURE 5928

GCAGTGA AATGTTATTAGTTTTGAGGGGGTTTGGGAAGCCAGCGGTACCTGAGGAGTTTCTGGACATTTAAGC
CGGTTCC TAGGTGTGGCCTTAACAGGGAGGCTGCCCTTCCTTTCACTGAATGAGCTGCGTCACTCATAAGCTCAC
TGAGGGAACCCCATCTGCCAGCTCGTGCGTGCTCAGACGGCGTCCATGTCTCAAGCGTTCTGTGAAGGCTGCGGT
GCAGCGTGAGGTACCCCTGCTGTGTTTCAAGAGCTTTGCTCACTGCCCTGCGGGGCTGGACCGTTGCACCTCCAGGGC
CCCCAGAAACCGAGTTTCGGGTCAGGGTCCTCTGTGTGCATTCTGGGGGTCCATGTACCAGCTGTGACGACGTC
CAGGGGTTGGGCTGAGAAGCAGACACCCCTTGGGGAACTGGCTCTGTCCCTCCCTCCCCCATCCCAGGAGCTGA
GGTCTTGGTGAGGCCACAGGGCCAGGTCCACGCAAGGACTGTCCGTGTCTGTCTGTGGTCTCTGGCCCCACGT
GACACCCACACGTGTGGTAGGCAGCCTGGCCTGGGTGTGGCTATGGCCAGGCCCCCAAGCTGTCCCGATGCCC
AGGGCTGGTGACCAACCAGGCAGGTGGGGGCCCCACTTGGTAACAGAGTCATAGGGCAGAACCACCTGGGCTGC
CACAGAAGGTCTGGCTGCCCTGTGCCCACTGTCCCCACCATGGCCAATCAGAAGAGTCAGGGGCTCTGGTCT
TTCCGGGAGGGACGTGGCCCAGCCAGCTCTAGGIGTCTGAGCAGCTCTGGGACCCAGCGATTGAGGGGTCAGGC
TGGGGGTGTGAGAGCCAGGGTCTCTCTTAAGTACCTCCACACTACACAGACAGTGGCCCTTTTGTGGGCAGCAA
ATTCTTGAGCCATGAAAGGATGCTTTGGGGCCCTTCCTCCCAGGAGGGCAGCCTGTGCAGGGATGGTGCTCAGC
AGGTGGACAGGGCCTGGGGCCTGTGTGAGGCTCTCAGGCCTGGGAGCACCAGCAGAGGAGATGGCGGCTCCCAGC
AGTGCCGCCTGAAAGTGTCTTGGGCTAAGGACCCACACCCAGGGCTGCCCTGCAGAAACGCCCCCGCAGAGCCCA
GTGGTCTGTGAGGTTGCAGGCAGGGTGCGAATGGAAGGGCACAGGTGCGGGGCTGGCACCTGCCCGTCTGCC
ACCTCCCCTCCGCCCAGCCCGCACCTGCGTCTCCCCACAGAGCTGTCCGTGGCACAGTGCACGCAGCGGCCCGTG
GACATCGTCTTCCTGTGACGGCTCCGAGCGGCTGGGTGAGCAGAACTCCACAAGGCCCCGGCGCTTCGTGGAG
CAGGTGGCGCGGCGGCTGACGCTGGCCCGGAGGGACGACGACCTCTCAACGCACGCGTGGCGCTGTGCAGTTT
GGTGGCCCCGGCGAGCAGCAGGTGGCCTTCCCGCTGAGCCACAACCTCACGGCCATCCACGAGGCGCTGGAGACC
ACACAATACCTGAACCTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAATGCCATTCGTGCGCAGCCG
CGTGGCGGGGCCCCGGAGGCACGAGAGCTGTCTTCGTGTTCTCAGGACGGCGTCACGGGCAACGACAGTCTG
CACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGTCTGGCCTTGGGCAGCGACGTGGACATG
GACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCCGTGTTCCACGAGAAGGACTATGACAGCCTGGCGCAA
CCCGGCTTCTTCGACCGCTTCATCCGCTGGATCTGCTAGCGCCGCGCCCGGGCCCCGAGTCGAGGGTCTGTGAG
CCCACCCCGTCCATGGTGCTAAGCGGGCCCCGGTCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTG
GGCCTGCACCTCTCCAGCTCTCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCAGCCCCAGGTCTCCCCAGGC
CCTCCGCAGGCTGCCCGGCCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTG
GAGCAAGCCCTGACCCAATAAAGGCTTTGAACCC

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FIGURE 5929

CACGAGGCGCTGGAGACCACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAAT
GCCATCGTGCGCAGCCCGCGTGGCGGGGCCCGGAGGCACGCAGAGCTGTCTTCGTGTTCCCTCACGGACGGCGTC
ACGGGCAACGACAGTCTGCACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTG
GGCAGCGACGTGGACATGGACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCGCGTGTTCACGAGAAGGAC
TATGACAGCCTGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACC

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FIGURE 5930

CCGGAGGCACGCAGAGCTGTCCTTCGTGTTCTCACCAGGACGGCGTCACGGGCAACGACAGTCTGCACGAGTCGGC
GCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATGGACGTGCCCAC
CCCGTCCATGGTGCTAAGCGGGCCCCGGGTCCCACACGGCCAGCACCGTGCTCACTCGGACGACGCCCTGGGCCT
GCACCTCTCCAGTCTCTCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCAGCCCCAGGTCTCCCCAGGCCCTCC
GCAGGCTGCCCCGGCCTCCCTCCCCCTGCAGCCATCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACCC

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FIGURE 5931

CCCTTGCTACTGCTCATGGGTGTGGAGACTGATATTCTGGAAGACTGATAGGCAGATTTACTATTAAACAAACAC
ATAGTCTGTGGCCCAGCAAAGCCACCCCAATCCCTGCACAAGGGTAAAAGGCCAGCATTAGAGCACTGCAGCAGC
AATGACGGAGGGGCACGTGTCTGCGGCGCCGAGGGGGCCCTACAAGACCGAGCCCGCCACCGACCTCGGCCGCTG
GCGACTCAACTGCGAGAGGGGCGGCGAGACGTGGACCTACCTGCAGGACGAGCGCGCCGGCCGAGCAGACCGG
CCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGACTTGCCCAAAGGCCACACCGCCTTTGA
GGGGGCTCTGAACGGGATGACATTTTACGTGGGGCTGCAGGCTGAGGATGGGCACTGGACGGGTGATTATGGTGG
CCCACCTTTCTCTGCGCAGGCTCCTGATCACTTGCCACGTGGCAGCATCCCTCTGCCAGCCGGATACAGAGA
AGAGATTGTGCGGTACCTGCGGTCACTGACGTCCCTGACGGTGGCTGGGGCTGCACATTGAGGATAAGTCCAC
CGTGTGGGGACTGCGCTCAACTATGTGTCTCTCAGAATTCTGGGTGTTGGGCTGACGATCCTGACCTGGTACG
AGCCCGGAACATTCTTCAAGAAAGGTGGTGTGTGGCCATCCCTCCTGGGGGAAGTTCTGGCTGGCTGTCTT
GAATGTTTACAGCTGGGAAGGCTCAATACCTGTTCCAGAGATGTGGCTGTTTCTGACTGGGCACCGGCACA
CCCCCTCCACACTCTGGTGCCACTGCCGGCAGGTGTACCTGCCCATGAGCTACTGCTACGCCGTTTCGGCTGAGTGC
CGCGGAAGACCCGCTGGTCCAGAGCCTCCGCCAGGAGCTCTATGTGGAGGACTTCGCCAGCATTGACTGGCTGGC
GCAGAGGAACAACGTGGCCCCGACGAGCTGTACACGCCCCACAGCTGGCTGCTCCGCGTGGTATATGCGCTCCT
CAACCTGTATGAGCACCACCACAGTGCCACCTGCGGCAGCGGGCCGTGCAGAAGCTGTATGAACACATTGTGGC
CGACGACCGATTACCAAGAGCATCAGCATCGGCCCCGATCTCGAAAACCATCAACATGCTTGTGCGCTGGTATGT
GGACGGGCCCCGCTCCACTGCCTTCCAGGAGCATGTCTCCAGAATCCCGACTATCTCTGGATGGCCCTTGACGG
CATGAAAATGCAGGGCACCAACGGCTCACAGATCTGGGACACCGCATTGCCATCCAGGCTCTGCTTGAGGCGGG
CGGGCACACAGGCCCGAGTTTTCGTCTGCTGCAGAAAGGCTCATGAGTTCCTGAGGCTCTCACAGTCCCAGA
TAACCTTCCCGACTACCAGAAGTACTACCGCCAGATGCGCAAGGGTGGCTTCTCCTTACGTACGCTGGACTGCGG
CTGGATCGTTTCTGACTGCACGGCTGAGGCCTTGAAGGCTGTGCTGCTCCTGCAGGAGAAGTGTCCCATGTAC
CGAGCACATCCCCAGAGAACGGCTCTGCGATGCTGTGGCTGTGCTGCTGAACATGAGAAATCCAGATGGAGGGTT
CGCCACCTATGAGACCAAGCGTGGGGGGCACTTGCTGGAGCTGCTGAACCCCTCGGAGGTCTTCGGGGACATCAT
GATTGACTACACCTATGTGGAGTGACCTCAGCCGTGATGCAGGCGCTTAAGTATTTCCACAAGCGTTTCCCGGA
GCACAGGGCAGCGGAGATCCGGGAGACCCTCACGAGGGCTTAGAGTCTGTGCGCGGCAGCAGAGGGCCGATGG
CTCCTGGGAAGGCTCCTGGGGAGTTTGCTTACCTACGGCACCTGGTTTGGCCTGGAGGCCTTCGCTGTATGGG
GCAGACCTACCGAGATGGGACTGCCTGTGCAGAGGTCTCCCGGGCCTGTGACTTCTGCTGTCCCGCAGATGGC
AGACGGAGGCTGGGGGGAGGACTTTGAGTCTGCGAGGAGCGGCTTATTGCGAGAGTGCCCCAGTCCCAGATCCA
TAACACATGCTGGGCCATGATGGGGCTGATGGCCGTTCGGCATCCTGACATCGAGGCCAGGAGAGAGGAGTCCG
GTGTCTACTTGAGAAACAGCTCCCCAATGGCGACTGGCCGCAGGAAAACATTGCTGGGGTCTTCAACAAGTCCG
TGCCATCTCTACAGAGCTACAGGAACATCTTCCCATCTGGGCCCTCGGCCGCTTCTCCAGCTGTACCCTGA
GAGAGCCCTTGCTGGCCACCCCT**TGAGA**AACATGCCTACCTGCTGGGTGCCGTCTGTGCGTTCCAGTGAGGCCAAGG
GGTCTTGCCGGGTTGGGGAGCCCTCCCATACCCCTGTCTTGGGCTCCAACCCCTCAACCTCTATCTCATAGATG
TGAATCTGGGGGCCAGGCTGGAGGCAGGGATGGGGACAGGGTGGGTGGCTTAGACTCTTGATTTTTACTGTAGGT
TCATTTCTGAAAGTAGCTTGTGCGGCTTGGGTGAGGAAGGGGGCACAGGAGCCGTGACCCCTGAGGAGGCACAGC
GCCTTCTGCCACCTCTGGGCACGGCCTCAAGGTAGTGAGGCTAGGAGGTTTTTTCTGACCAATAGCTGAGTTCTT
GGGAGAGGAGCAGCTGTGCCTGTGTGATTCTTAGTGTGAGTGGGCTCTGGGCTGGGGTGGGCCCTGGGCAGGC
TTCTCCTGCACCTTTTGTCTGCTGGGCTGAGGGACACGAGGGCAACCTGTGACAATGGCAGGTAGTGTGCATCC
GTGAATAGCCCACTGCGGGGTTGCTCATGGAGCATCCTGAGGCCGTGCAGCAGGGAGCCCCATGCCCTGGGTG
GTGAGCTTGCTGCGTATGGGTGGTGTGTGAGGCTCATGCCCTGGGTGCTGAGCTCGCCTGAGTATGGGGT
GGTGTGATGGAGCCGCATACCCCTGGGTTGTGAGCTCGCCTGCATATGCAGGGTCTGTGATGGAACATCCCAAGT
CTGTGCAGCAGGGAGCCCCATGCCCTGGGACATGAACCCACCTGCGTGGAATGCTGTTTGTGAGGTGTCTACAG
GGTTTATAGTAGTCTTGTGGACACAGAAATGCACAGGGGACACTTACGGACACAGA

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FIGURE 5932

MTEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWYTLQDERAGREQTGLEAYALGLDTKNYFKDLPKAHTAFE
GALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKST
VFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGNLTLFPEMWLFDPDWAPAH
PSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL
NLYEHHSALRQRAVQKLYEHIVADDRFTKSISIGPISKINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDG
MKMQGTNGSQIWDTAFAIQALLEAGGHRPEFSSCLQKAHEFLRLSQVPDNPPDYQKYRQMRKGGFSFSTLDCG
WIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLELLNPSEVFGDIM
IDYTYVECTSAVMQALKYFHKRFPEHRAAEIREITLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMG
QTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYLSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVR
CILEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP

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FIGURE 5933A

GTAACTTAATTACCTTCTAATAATTGGAGCAGAAGATGAACCCAACTAATCCTTTCAGTGGGCAGCAGCCTAG
TGCTTTTTCGGCGTCTTCTAGTAATGTAGGAACACTTCCATCTAAGCCGCCATTTTCGATTTGGTCAACCTTCTCT
TTTTGGACAAAACAGTACCTTATCTGGGAAGAGCTCGGGATTTTCACAGGTATCCAGCTTTCCAGCGTCTTCTGG
AGTAAGTCATTCTCTTCAGTGCAAACATTAGGGTTCACCCAACTCAAGTGTGGACCCCTTTTCIGGACTTGA
GCACACTTCCACCTTTGTGGCTACCTCTGGGCCTTCAAGTTCATCTGTGCTGGGAAACACAGGATTTAGTTTTAA
ATCACCCACAGTGTGGGGCTTTCCCAAGCACTTCTGCTTTTGGACAAGAAGCTGGAGAAATAGTGAACCTCTGG
TTTTGGGAAAACAGAATTCAGCTTTAAACCTCTGGAAAATGCAGTGTTCAAACCAATACTGGGGGCTGAATCTGA
GCCAGAGAAAACCCAGAGCCAAATGCTTCTGGGTTTTTACATTTTCCCACCCAATTAGTAGTGCACCTGGAGG
CCTGGCCCCCTTCTCTTTTCTCAAGTAACAAGTAGTTTCAGCTACCACTTCAAATTTTACCTTTTCAAAACCTGT
TAGTAGTAATAATTCAATATCTGCCTTTACCCCTGCTTTGTCAAACCAAAATGTAGAGGAAGAGAAGAGAGGACC
TAAGTCAATATTTGGAAGTTCTAATAATAGCTTCAGTAGCTTCCCTGTATCATCTGCGGTTTTGGGCGAACCTTT
CCAGGCTAGCAAAGCAGGTGTCTAGGCAGGGGTGTGAAGAAGCTGTTTCCCAGGTGGAACCACTTCCCAGCCTAAT
GAAAGGACTGAAAAGGAAGGAGGACCAGGATCGCTCCCCAAGGAGACATGGCCACGAGCCAGCAGAAGATTCGGA
TCCTCTGTCCCGGGCGATCATCTCCAGACAAACGACCTGTCCGCTGAATCGACCCCGGGGAGGTACTTTATT
TGGTCGGACGATACAGGATGTTTTCAAAGCAATAAGGAAGTAGGTCGTCTGGGCAACAAGGAGGCCAAAAGGA
AACTGGCTTTGTGTAGTCTGCAGAAAGTGACCACATGGCTATCCCAGGAGGGAATCAGTCTGTCTGGCACCTTC
CCGATTCCAGGTGTGAATAAAGAGGAAGAACTGAAAGTAGAGAGAAGAAAGAAAGATTCTCTAAGAGGAATCC
GGCGCGTCAGAGTAACAGAAGCGAGAGCACAGACAGTCTTGGGGGCTTGTCTCCCTCTGAAGTCACAGCCATCCA
GTGCAAGAACATCCCTGACTACCTCAACGACAGGACCATTCTGGAGAACCATTTTGGCAAAATGTCTAAAGTGCA
GGCATCTTTTACCAGGCGCAGCAAAAAGCTTGCAGTGGTACATTTCTTTGATCATGCATCTGCAGCCCTGGCTAG
AAAGAAGGGGAAAAGTTTGCATAAAGACATGGCTATCTTTTGGCACAGGAAGAAAATAAGCCCCAATAAGAAACC
CTTTTCCCTGAAGGAGAAGAAACCAGGTGACGGTGAAGTCAGCCCGAGCACAGAGGATGCACCCTTTTACGACTC
TCCTCTTGGCAAGGCCCGCAGGGAGGACTGGTGCTAGCAGCCTCCTGAATAAAAGCTCTCCAGTGAAGAAGCCAAG
TCTTCTAAAGGCCACCAATTTCGAGGGAGACTCTTTTGAATCAGCCTCCGAGGGCTCCGAGGGCTCGGGCCATG
TGTGCTCTCCCTCAGTACCCTGATAGGCACTGTGGCTGAGACATCCAAGGAGAAGTACCGCTGCTTGACCAGAG
AGACAGGATCATCGGCAAGCTCGGGTGAAGAGAACCAGTCTGGACAAAGCGAGGACTTTTGTGGCACCTGCTC
GGATATGTGTCTGAGAAGGAGAGGTACATGCGGGAGACCCGTAGCCAGCTGAGCGTGTTCGAAGTGGTCCCAGG
GACTGACCAGGTGGACCACGCAGCAGCTGTGAAAGAGTACAGTCCGTCTCGGCGGATCAGGAGGAGCCCCTGCC
CCACGAGCTGCGGGCCTTGCCAGTGTCTCAGCAGGACCATGGACTACCTGGTGACCCAGATCATGGACCAGAAGGA
GGGAGCCTGCGGGATTGGTATGACTTCGTGTGGAACCGCACGCGTGGCATAACGAAGGATATACGCAGCAGCA
CCTCTGTGACCCCTGACGGTGTCCCTGATTGAGAAGTGACCCGGTTTCACATCCACTGTGCCCACTTTCATGTG
TGAGGAGCCCATGTCTCTTTGATGCCAAGATCAATAATGAGAACATGACCAAGTGCCTGCAGAGCCTGAAGGA
GATGTACCAGGACCTGAGAAACAAGGTGTCTTCTGTGCCAGCGAAGCGGAGTTCAGGGCTACAATGTTCTGTCT
CAGTCTCAACAAGGGAGACATCCTAAGAGAAGTACAACAGTTCATCTGCTGTGTAGAACTCATCTGAGGTGAA
ATTTGCTGTTTCCAGGCTTTTGTCTGATTTGAACAGTAATAATTTTGTGAGATTTTCAAACCTGGTCCAGTCAGCTTC
TTACCTGAACGCTTGTCTTTTACACTGTTACTTCAGTCAGATCCGCAAGGATGCTCTCCGGGCGCTCAACTTTGC
GTACACGGTGAGCACACAGCGATCTACCATCTTTCCCTGGATGGTGTGGTGCGCATGCTGCTGTTCAGAGACTG
TGAAGAGGCCACCGACTTCCTCACCTGCCACGGCCTCACCGTTTCCGACGGCTGTGTGGAGCTGAACCGTCTGC
ATTCCTGGAACAGAGGGATTATCCAAGACCAGGAAGTCGGTGTATTACTAGGAAGCTGACGGTGTTCAGTCGG
GGAAATGTGAACGGAGGGCCATTGCCCCCGTCCCTCGTCACACCCCTGTGTGCAGCTTCAACTCCCAGAACAA
GTACATCGGGGAGAGCCTGGCCGCGGAGCTGCCCGTCAGCACCCAGAGACCCGGCTCCGACACAGTGGGCGGAGG
GAGAGGAGAGGAGTGTGGTGTAGAGCCGGATGCACCCCTGTCCAGTCTCCACAGTCTCTACCAAGCTTCCGCTG
CTCACCAGTGCCTCTGCCTCCTGTCTGGCACTGACCCCGTGTGTGGCGCCAGCCTCTTCCAGCTGTCTGTGCA
GCCTGAACACCGCCTCCAGAGCCCGTGCCCATGTACTCTGACGAGGACCTGGCGCAGGTGGTGACGAGCTCAT
CCAGGAGGCCCTGCAGAGGACTGTGAGGAAGTTGGCTCTGCGGGTGTGCTTACGAGCTGCCGCCCTGGGTGT
TTCTAATGCTGCTATGGAGGATTTGTTAACAGCTGCAACCACGGGCATTTTGAGGCACATTGCAGCTGAAGAAGT
GTCTAAGGAAAGAGAGCGAAGGGAGCAGGAGAGGCAGCGGGCTGAAGAGGAAAGGTTGAAACAAGAGAGAGAGCT
GGTGTAAAGTGAGCTGAGCCAGGGCCTGGCCGTGGAGCTGATGGAACCGTGATGATGAGTTTGTGAGGGAAC

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FIGURE 5933B

CTGCTCCCAGGAGTTGAAGAATGCAGTAGAGACAGACCAGAGGGTCCGTGTGGCCCGTTGCTGTGAGGATGTCTG
TGCCCACTTAGTGGAAGTTGTTTTCTCGTGGAGGAAATCTTCCAGACTGCAAAGGAGACCCTCCAGGAGCTTCAGTG
CTTCTGCAAGTATCTACAGCGGTGGAGGGAAGCTGTACAGCCCGCAAGAACTGAGGCGCCAAATGCGGGCTTT
CCCTGCTGCGCCCTGCTGCGTGGACGTGAGCGACCGGCTGAGGGCGCTGGCGCCAGCGCAGAGTGCCCCATTGC
TGAAGAGAACCTGGCCAGGGGCTCCTGGACCTGGGCCATGCAGGGAGATTGGGCATCTCTTGACACAGGTTAAG
GCGGCTCAGAAACAAGACAGCTCACCAGATGAAGGTTTACGACTTCTACCAGCAGCTGCTGAGTGATGTGGCATG
GGCGTCTCTGGACCTGCCATCCCTCGTGGCTGAGCACTCCCTGGGAGGCAGGAGCATGTGTTTTGGAAGCTGGT
GCTGGTGTGGCCGATGTAGAGGAGCAGTCCCCAGAGAGTTGTGGCAGAATTCTAGCAAATTGGTTAAAGTCAA
GTTTCATGGGAGATGAAGGCTCAGTGGATGACACATCCAGCGATGCTGGTGGGATTAGACGCTTTGCTTTTTCAA
CTCACTTAGCAGCAAAGGGGATCAGATGATTTCTGTTAACGTGTGTATAAAGGTGGCCCATGGCGCCCTCAGTGA
TGGTGCCATTGATGCTGTGGAGACACAGAAGGACCTCCTGGGAGCCAGTGGGCTCATGCTGCTGCTTCCCCCAA
AATGAAGAGTGAGGACATGGCAGAGGAGGACGTGTACTGGCTGTGCGCCTTCTGTCAGCTCAAGCAGCTCCTGCA
GGCTAAGCCCTTCCAGCCTGCGCTTCTCTGGTGGTTCTTGTGCCTAGCCCAGGAGGGGACGCCGTTGAGAAGGA
AGTAGAAGATGGTCTGATGCTACAGGACTTGGTTTTCAGCTAAGCTGATTTTACAGATTACACTGTTACCGAGATCCC
TGATACCATTAATGATCTACAAGGTTCAACTAAGGTTTTCAGAGCAGTGCACTGGCTGGTTTCCCACTGCCCCCA
TTCCCTTGACCTCTGCTGCCAGACTCTCATTAGTACGTCGAAGACGGGATTGGCCATGAGTTTAGTGCCGCTT
TTCCATGACAGAAGAGAGAGGCGTCTGGGCGGTCTTGGCTTCTCAGGAGCCTGGCGCCATCATTGAGCTGTTTAA
CAGTGTGCTGCAGTTTCTGGCTTCTGTGGTGTCTCTGAACAGCTGTGTGACCTGTCTGGCCTGTCACTGAGTT
TGCTGAGGCAGGGGGCAGCCGGCTGCTTCCCTCACCTGCACTGGAATGCCCCAGAGCACCTGGCCTGGCTGAAGCA
GGCTGTGCTCGGGTTCCAGCTTCCGCAGATGGACCTTCCACCCCTGGGGGCCCCCTGGCTCCCCGTGTGCTCCAT
GGTTGTCCAGTACGCCTCCCAGATCCCCAGCTCACGCCAGACACAGCCTGTCTCCAGTCCCAGGTGGAGAACCCT
GCTCCACAGAACCCTACTGTAGGTGGAAGAGCAAGAGTCCCTCCCCAGTCCATGGGGCAGGCCCCCTCGGTATGGA
GATCCCATGGGATGATCTTATCGCCTTGTGTATCAACCACAAGCTGAGAGACTGGACGCCCCCGGCTTCCCTGT
TACATCAGAGGCGCTGAGTGAAGATGGTCAGATATGTGTATTTTTTTAAAAACGATTTGAAAAATATGATGT
TCCTTTGTCGTGGGAACAAGCCAGGTTGCAGACGCAGAAGGAGCTACAGCTGAGAGAGGGACGTTTGGCAATAAA
GCCTTTTCATCCTTCTGCAAACAATTTTCCCATACCAATGCTTCACATGCACCGTAACCTGGAAGAGGAGCACAGA
GTGTGCTCAAGAGGGGAGGATTCCCAGCACAGAGGATCTGATGCGAGGAGCTTCTGCTGAGGAGCTCTTGGCGCA
GTGTTTGTGAGCAGTCTGCTGCTGGAGAAAGAAGAGAACAAGAGGTTTGAAGATCAGCTTCAGCAATGGTTGTC
TGAAGACTCAGGAGCATTACGGATTTAACTTCCCTTCCCTCTATCTTCTCAGACTCTAGTGTCTCTTTCTCA
CACTATTGAACCTGTGATGAAAACATCTGTAACCTAGCCCCACAGAGTGACATGATGAGGGAGCAATGCAGCT
GTCAGAGGCGACAGGAACGTGTCTAGGCGAACGACTAAAGCACCTGGAAAGGCTGATCCGGAGTTCAAGGGAAGA
GGAAGTTGCCTCTGAGCTCCATCTCTGCGCTGCTAGACATGGTGGACATTGAGCAGCCTGACCTGTGGGGAG
GGGTCTCTCCCGAAGAGTTTCTGTTTTTACTCAAAATAATGTTATTCTCAGATGCTTGATGCACTGTGGAAAT
GTGATTAATTTAATCATGCAGATAAACCATTTAAATGTC

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FIGURE 5934

MNPTNPFSGQQPSAFSASSSNVGTLPSPKPPFRFGQPSLFGQNSTLSGKSSGFSQVSSFPASSGVSHSSSVQTLGF
TQTSSVGPFSGLEHTSTFVATSGPSSSSVLGNTGFSFKSPTSVGAFFSTSAFGQEAGEIVNSGFGKTEFSFKPLE
NAVFKPILGAESEPEKTQSQIASGFFTFSHPISSAPGGLAPFSFPQVTSSSATTSNFTFSKPVSSNNSLSAFTPA
LSNQNVEEEKRGPKSIFGSSNNSFSSFPVSSAVLGEFPQASKAGVRQGCCEAVSQVEPLPSLMKGLKRKEDQDRS
PRRHGHEPAEDSDPLSRGDHPPDKRPVRLNRPRGGTLFGRTIQDVFKSNKEVGRLGNKEAKKETGFVESAESDHM
AIPGGNQSVLAPSRIPGVNKEEETESREKKEDSLRGTPARQSNRSESTDLSGGLSPSEVTAIQCKNIPDYLDNRT
ILENHFGKIAKVQRIFTRRSKKLAVVHFFDHASAAALARKKGKSLHKDMAIFWHRKKISPNNKPFSLKEKKPGDGE
VSPSTEDAPFQHSPLGKAAGRTGASSLLNKSSPVKKPSSLKAHQFEGDSFDSASEGSEGLGPCVLSLSTLIGTVA
ETSKEKYRLLDQDRIMRQARVKRTDLDKARTFVGTCLDMCPEKERYMRETRSQLSVFEVVPDQVDHAAAVKE
YSRSSADQEEPLPHELRLPLVLSRTMDYLVTQIMDQKEGSLRDWYDFVWNRTRGIRKIDITQOHLCDPLTVSLIEK
CTRFHIHCAHFMCEPEMSSFDAKINNENMTKCLQSLKEMYQDLRNKGVCASEAEFQGYNVLLSLNKGDILREVQ
QFHPAVRNSSEVKFAVQAFALNSNNFVRFFKLVSASYLNACLLHCYFSQIRKDALRALNFAYTVSTQSTIFF
LDGVVRMLLFRDCEEATDFLTCHGLTVSDGCVELNRSAPLEPEGLSKTRKSVFITRKLTVSVGEIVNGGPLPPVP
RHTPVCFSNSQNKYIGESLAAELPVSTQRPQSDTVGGGRGEECGVEPDAPLSSSLPQSLPAPAPSPVPLPPVLALT
PSVAPSLFQLSVQPEPPPEPVPMYSDEDLAQVVDLIEALQDCEEVGSAGAAAYAAAALGVSNAAMEDLLTAA
TTGILRHIAAEEVSKERERREQERQRAEEERLKQERELVLSLSQGLAVELMERVMMEFVRETCSQELKNAVETD
QVRVARCCEDVCAHLVDLFLVEEIFQTAKETLQELQCFCKYLQRWREAVTARKKLRRQMRAPPAAPCCVDVSDR
LRALAPSAECPIAEENLARGLLDLGHAGRLGISCTRLRLRNKTAHQMKVQHFYQQLLSDVAWASIDLPSLVAEH
LPGRQEHVFWKLVLVLPDVEEQSPESCGRIANWLKVKFMGDEGSVDDTSSDAGGIQTLSLFNSLSKGDQMISV
NVCIKVAHGALSDGAIDAVETQKDLLGASGIMLLLPKMKSEDMAEEDVYWLSALLQLKQLLQAKPFQPALPLV
LVPSPGGDAVEKEVEDGLMLQDLVSAKLISDYTVTEIPDTINDLQGSTKVLQAVQWLVSCHPSLDLCCQTLIQY
VEDGIGHEFSGRFFHRRERRRLGGLASQEPGAIIELFNSVLQFLASVVSSEQLCDLSWPVTEFAEAGGSRLPLHL
HWNAPHLAWLKQAVLGFQLPQMDLPLGAPWLPVCSMVVQYASQIPSSRQTQFVLQSQVENLLHRTYCRWKSXS
PSPVHGAGPSVMEIPWDDLIALCINHKLWDTPPRLPVTSEALSEDGQICVYFFKNDLKKYDVPLSWEQARLQTQ
KELQLREGRLAIKPFHPSANNFPIPLLHMRNWKIRSTECAQEGRIPTSTEDLMRGASAEELLAQCLSSSLLEKEE
NKRFEQDLQQLWLSSEDSGAFTDLTSLPLYLPQTLVLSLSTIEPVMKTSVTTSPQSDMMREQLQLSEATGTCLGERL
KHLERLIRSSREEEVASELHLSALLDMVDI

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FIGURE 5935

TGCCGCCCAGGACCCGCAGCAGAGACGACGCCTGCAGCAAGGAGACCAGGAAGGGGTGAGACAAGGAAGAGGATG

TCTGAGCTGGAGAAGGCCATGGTGGCCCTCATCGACGTTTTCCACCAATATTCTGGAAGGGAGGGAGACAAGCAC
AAGCTGAAGAAATCCGAACTCAAGGAGCTCATCAACAATGAGCTTTCCCATTTCTTAGAGGAAATCAAAGAGCAG
GAGGTTGTGGACAAAGTCATGGAACACTGGACAATGATGGAGACGGCGAATGTGACTTCCAGGAATTCATGGCC
TTTGTGGCCATGGTTACTACTGCCTGCCACGAGTTCTTTGAACATGAGTGAGATTAGAAAGCAGCCAAACCTTTC
CTGTAAACAGAGACGGTCATGCAAGAAAGCAGACAGCAAGGGCTTGCAGCCTAGTAGGAGCTGAGCTTTCCAGCCG
TGTGTAGCTAATTAGGAAGCTTGATTGCTTTGTGATTGAAAAATTGAAAACCTCTTTCCAAAGGCTGTTTTAA
CGGCCTGCATCAATCTTTCTGCTAATATTAGGCCTGTGTGTAAGCTGACTGGCCCCAGGGACTCTTGTTAACAGTA
ACTIAGGAGTCAGGTCTCAGTGATAAAGCGTGCACCGTGCAGCCCGCCATGGCCGTGTAGACCCTAACCCGGAGG
GAACCCTGACTACAGAAATTACCCCGGGGCACCCTTAAACTTCCACTACCTTTAAAAAACAAAGCCTTATCCAG
CATTATTTGAAAACACTGCTGTTCTTTAAATGCGTTCCCTCATCCATGCAGATAACAGCTGGTTGGCCGGTGTGGC
CCTGCAAGGGCGTGGTGGCTTCGGCCTGCTTCCCGGGATGCGCCTGATCACCAGGTGAACGCTCAGCGCTGGCAG
CGTCCTGGAAAAAGCAACTCCATCAGAACTCGCAATCCGAGCCAGCTCTGGGGGCTCCAGCGTGGCCTCCGTGAC
CCATGCGATTCAAGTCGCGGCTGCAGGATCCTTGCCTCCAACGTGCCTCCAGCACATGCGGCTTCCGAGGGCACT
ACCGGGGGCTCTGAGCCACCGCGAGGGCCTGCGTTCAATAAAAAAG

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FIGURE 5936

MSELEKAMVALIDVFHQYSGREGDKHKLKSELKELINNELSHFLEEIKEQEVVDKVMETLDNDGDGECDFQEFM
AFVAMVTTACHEFFEHE

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FIGURE 5937

CGGCGACGGCCGGATGCGCTGCGTGCGGCTGCGCTGCGCGCGGCGCGTGGGCTTTGCTGGCGGGCGGC
GCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCGCAGGTGCTATGCTGTGGGCCCCGCTCAGAGCCCACCCAC
CTTTGGGTTCTGTTGGACATCGATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTGCTCTGAAAGCCTT
CCGAAGGCTGGTGAACCTCCAGGGGCAGCTGCGGGTGCCCGTGGTTTTTGTACAAATGCTGGGAACATCTTACA
ACACAGCAAAGCCCAGGAGCTGTGAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTATCCTCTCTCACAG
CCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCGTGATGGAAAATGC
CCAGGGACTGGGCTTCCGAAATGTCGTACCGTGAGTGAGCTGCGGATGGCCTTCTCTGCTTGACATGGTGGA
CCTGGAGCGGCGGCTAAAGACCACGCCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGGTGCTCCTCCTAGG
GGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCTCTCCTCAGCAATGGGAGCCCTGGGGCTGG
CCTGGCAACACCCCCCTACCCCCACCTCCCCGTCCTAGCCAGCAACATGGATCTCCTGTGGATGGCTGAAGCCAA
GATGCCCAGGTTTGGACATGGCACCTTCTGCTGTGCCTGGAAACCATTACCAGAAAGTGACGGGCAAGGAGCT
GAGATACGAGGGCTGTATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGATCAGGCGACAGGC
GGAGAGGCGGGGCTGGGCCGCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCCTATGTCTGACGTATACGG
CGCCAACCTGTTCCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGGCCGGGGGCACACG
GCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACAATCCCAGGAACCC
ACAGTCCACGGAGCCTGTCTTGGAGGAGGGGAGCCTCCATTCCACGGGCACCGAGACTTATGCTTCAGTCCAGG
GCTCATGGAGGCCTCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCAAGGAGGGCTGGGC
TTTGAGTGAAGGCGAGTGCGGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCATGGCTGGGCTCT
GGCCTGATCACTGGGCTCAGGTCAGGGCTTGGTTCCTTGCCACCCTTCTTGCTGCCCCATGAGTGTGGCATTAC
TGGTCACTTGAAGAAGACAGTGACTCTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGGTTGAATTTCTG
GGCCAGTTCCACGTGCCTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCTGTGTGCCTCAGTGTCTT
CTCATTTAGTAGGGACTTCTGAAATGGGGGAGGCAGTGTGAATACTGTGGATGTCTGTGCAGAGCCTTTGCCG
GCACTGAAGGCATGCAGCCTGTGCGCAGAGTGTCTTAACACCAGATGCTACTTTTACTGTATTGTAGTTTATTG
CCCGGAGATGTGGGGCTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGACTCTTGTA

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FIGURE 5938

MAAWGCVAALGAARGLCWRAARAAAGLQGRPARRCYAVGPAQSPPTFGFLDIDGVLVRGHRVIPAAALKAFRRLV
NSQGQLRVPVVFVTNAGNILQHASKAQELSALLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLG
FRNVVTVDLRMAFPLLDMVDLERRLKTTPLPRNDFPRIEGVLLLGEFVRWETSLQLIMDVLLSNGSPGAGLATP
PYPHLPVLASNMDLLWMAEAKMPRFHGHTFLLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRQAERRG
WAAPIRKLYAVGDNPMSDVYGANLFHQYLQKATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTE
PVLGGGEPPFHGHRDLCFSPGLMEASHVVNDVNEAVQLVFRKEGWALE

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FIGURE 5939

GTGCACGTGCGCACGGCGACGGCCGGATGGCTGCGTGCGGGCTGTGTGGCTGCGCTCGGCGCGGCGCGTGGGCTTT
GCTGGCGGGCGGCGCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCCGCCGAGGTGCTATGCTGTGGGCCCCGCTC
AGAGCCCACCCACCTTTGGGTTCCTGTTGGACATCAATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTG
CTCTGAAAGCCTTCCGAAGGCTGGTGAACCTCCAGGGGCAGCTGCGGGTGCCCGTGGTTTTTTGTTACAAATGCTG
GGAACATCTTACAACACAGCAAAGCCCCAGGAGCTGTCAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTA
TCCTCTCTCACAGCCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCCG
TGATGGAAAATGCCAGGGACTGGGCTTCCGAAATGTCGTACCGTGGATGAGCTGCGGATGGCCTTTCTCTGCTG
TTGACATGGTGGACCTGGAGCGCGGCTAAAGACCACGCCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGG
TGCTCCTCCTAGGGGAGCCGCTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCCTCCTCAGCAATGGGA
GCCCTGGGGCTGGCCTGGCAACCCCCCTACCCCCACCTCCCCGTCCTAGCCAGCAACATGGATCTCCTGTGGA
TGGCTGAAGCCAAGATGCCCAGGTTTGGACATGGCACCTTTCTGCTGTGCTGGAAACCATTTACCAGAAAGTGA
CGGGCAAGGAGCTGAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGA
TCAGGCGACAGGCGGAGAGGCGGGGCTGGGCCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCCATATGT
CTGACGTATACGGCGCCAACCTGTTCCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGG
CCGGGGGCACACGGCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACA
ATCCCAGGAACCCACAGTCCACGGAGCCTGTCTTTGGAGGAGGGGAGCCTCCATTCCACGGGCACCGAGACTTAT
GCTTCAGTCCAGGGCTCATGGAGCCCTCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCA
AGGAGGGCTGGGCTTTGGAGTGAGGGCAGTGCGGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCA
TTGGCTGGGCTCTGGCCTGATCACTGGGCTCAGGTCAGGGCTTGGTTCCCTTGCCACCCTTCTTGCTGCCCCATG
AGTGTGGCATTACTGGTCACTTGAAGAAGACAGTGACTCTTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGG
TTGGAATTTTCTGGGCCCAGTTCCACGTGCCTTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCTGTGTG
CCTCAGTGTCTTCTCATTTCAGTAGGGACTTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGC
AGAGCCTTTGCCGGCACTGAAGGCATGCAGCCTGTCGGCAGAGTGTCTTAACACCAGATGCTACTTTTTACTGTA
TTGTAGTTTATTGCCCGGAGATGTGGGGCTTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGAA
AAAAAAAAAAAAAA

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FIGURE 5940

MYAWFFLPSFSQSPPTFGFLLDIDGVLVRGHRVIPAAALKAFRRLVNSQGQLRVPVVFVTNAGNILQHSKAQELSA
LLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLGFRNVVTVDLRFMAFPLLDMVDLERRLKTF
LPRNDFPRIEGVLLLGEPVRWETSLQLIMDVLLSNGSPGAGLATPPYPHLPVLASNMDLLWMAEAKMPRFGHGT
LLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRQAERRGWAAPIRKLYAVGDNPMDSVYGANLFHQYLQ
KATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTEPVLGGGEPPFHGHRDLCFSPGLMEASHVVN
DVNEAVQLVFRKEGWALE

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FIGURE 5941

AGGAACCGGAACCCGCGGTTATAAAGTAAAGGAACCCGAGATCTGCGCAGGGGTTCCCTTTGCCGATTTCTCTCA
CCTCACCTTTCAAACCTAAACTCGAGCCTACTGTTACCCGGCCTAGCATTGCTCTCGCCATGGCTCTCAGCGATG
CTGACGTGCAAAAGCAGATAAAGCATATGATGGCTTTTCATTGAACAAGAAGCCAATGAGAAAGCAGAAGAAATAG
ATGCAAAGGCAGAAGAAGAGTTCAACATAGAGAAAGGTGGCTTGTGCAAACCCAAAGACTAAAGATTATGGAAT
ATTATGAGAAGAAAGAGAAACAGATTGAGCAGCAGAAGAAAATTCAGATGTCCAATTTGATGAATCAAGCGAGAC
TCAAAGTCCTCAGAGCAAGAGATGACCTTATCACAGACCTACTAAATGAAGCAAAACAGAGACTCAGCAAGGTGG
TAAAAGATACAACCAGGTACCAAGTGCTGCTGGATGGACTGGTTCTCCAGGGTTTGTACCAGTTGCTGGAGCCCC
GAATGATTGTTTCGTTGCAGGAAACAAGATTTCCCTCTGGTAAAGGCTGCAGTGCAGAAGGCAATTCCTATGTACA
AAATTGCCACCAAAAACGATGTTGATGTCCAAATTGACCAGGAGTCCTACCTGCCTGAAGACATAGCTGGTGGAG
TTGAGATCTATAATGGAGATCGTAAAATAAAGGTTTCCAACACCCTGGAAAGCCGGCTGGATCTCATAGCCCAGC
AGATGATGCCAGAAGTCCGGGGAGCCTTGTTTGGTGCAAATGCCAACAGGAAGTTTTTGGACTAAGCCTTCAGGA
GGTGGAGCTCGTCGTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACACGAATGTCTCTGTA
GCTTCCTCTTCACTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCTCTGTCACTCATGCCTTGCCTAATT
GTTCACAATGGTGGAAAGCTTCATGTAATATGATCAGGACCCACCTCCAGTTCTTCTGAAAGTGTGACAGTGTCC
AGCCGGTTCTGCAGCACTAGGGGAGGGGGCAGATGGTGGTTGCATGGGCTTCCTGGGTCTCCACTCTCCGTCTGG
CCTAAAGGTGATGATTTGGTGTGTTGGCCCTGCAGTCCCCACTCTTGAGGCTTAAGGCGCATGTGGCACACCACT
CCTTCCAGCAGTAGTCGCTTTACTGTTACCTGTTTAGGCCTAGAAGTTTTCCCTCATCTGTAAATGTGATTTAAA
ATCTAAGCCATGAATATGCTTTATTTATTAAAAGAGTTATGCGGATTTAATGTGA

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FIGURE 5942

MALSDADVQKQIKHMMAFIEQEANEKAAEIDAKAEEEFNIEKGRVQTQRLKIMEYYEKKEKQIEQQKKIQMSNL
MNQARLKVLRARDDLI TDLLNEAKQRLSKVVKDTTRYQVLLDGLVLQGLYQLLEPRMIVRCRKQDFPLVKA AVQK
AIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNTLESRLDLIAQQMMPEVRGALFGANANRKFL
D

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FIGURE 5943A

GAAGAGTCCAGTGAAGCCGGGAACCAAGAGGCTCCAGCAGGTCATGCACGCGGCGGATCCTCTGGAGATCCAGGCT
GACGTGCACTGGACTCATATCCGTGAGAGAGAGGAGGAAGAGAGGATGGCGCCGGCCTCTGAGTCTCTGCTTCC
GGAGCCCCATTGGATGAGAATGACCTAGAGGAAGATGTGGACTCAGAACCAGCCGAGATAGAAGGGGAGGCAGCA
GAGGATGGGGACCCAGGGGACACTGGTGCTGAGCTGGATGATGATCAGCACTGGTCTGACAGCCCGTCGGATGCT
GACAGAGAGCTGCGTTTTGCCGTGCCAGCTGAGGGGAAGCAGAGCTGGAGCTGAGGGTGTGCGAAGATGAGGAG
AAGCTGCCCCCCTCACCGAAGCACCAAGAGAGAGGTCCCTCCCAAGCCACCAGCCCCATCCGGTCTCCCCAGGAA
TCAGCTCTTCTGTTTATTCCAGTCCACAGCCCCCTCAACAGAGGGGCCCCAACTCCCACTGTCCCTGCCGCCACC
CAGGAGAAATCACCTGAGGAGCGCCTTTTCCCTGAGCCTTTGCTCCCCAAAGAGAAGCCCAAAGCTGATGCCCC
TCGGATCTGAAAGCTGTGCACTCTCCCATCCGATCACAGCCAGTGACCCTGCCAGAAGCTAGGACTCCTGTCTCA
CCAGGGAGCCCGCAGCCCCAGCCACCCGTGGCGGCTCCACGCCCCCACCAGCCCACTCCCCATCTGCTCCAG
CCCCAGCCTTCCACCGAGGCCACTGTCCCATCCCCTACCAGTCCCCCATACGCTTCCAGCCTGCCCGGCCAAA
ACATCCACCCCACTGGCCCCCTCTCCCTGTCAAAGCCAAAGTGACACCAAGGACAGACTGGGCAGCCCCCTTGCT
GTGGATGAGGCCCTCAGACGGAGCGACCTGGTGGAGGAGTTCTGGATGAAGAGTGCGGAGATCCGCCGAGCCCTC
GGGCTCACACCTGTGGACCGCAGCAAGGGGCCCCGAGCCAGCTTCCCCACGCTGCCCTCAGGCCAGTGTCCCTC
AAATCCTATTCCGTTGAAAAGTCCCCCAGGATGAGGGACTCCACCTTCTCAAGCCTCTGTCCATCCCCAAAAGG
CTGGGCCTGCCAAAGCCGGAAGGCGAGCCGTTGTCCCTGCCAAGCCCCCGGTCCCCGTCCGACAGAGAGCTACGC
AGCGCCAGGAGGAGCGCAGGGAGCTGTCCAGCAGCTCTGGCCTGGGCTGCACGGGAGCTCCTCCAACATGAAG
ACACTGGGCAGCCAGAGCTTCAACACCTCGGACTCCGCCATGCTCACGCCCCCTCCAGCCCCCCCCACCGCCA
CCCCCGGGCAGGAGCCCCGCCACCTTGGCGAGGAAGCTCAGGGAGGCCGAGCCCAATGCCTCGGTGGTCCCGCCG
CCCTTGCCCGCCACCTGGATGCGGCCCCCCCGGAGCCTGCTCAGCCCCCAGAGAGGAGTGCGGAAGTCTGTTT
GTGGAGAGCGTGGAGGAGATTCCCTTTGCTGATGATGTGGAGGACACCTATGACGACAAGACTGAGGACTCAAGC
CTGCAGGAGAAATTTCTTACGCCCCCGTCTCTGCTGGCCGCGCCCCGAGAAGCCTCGCCACCCGCCCTGGCCAA
GAGAACGGGAGGCTGCTGCTCTGGAGGGGACGCTGCAGCCACAGAAGAGGGGGCTGCCCTTGGTGTCCGCGGAA
GCCAAGGAGTTGGCCGAGGAGCGCATGCGAGCCAGGAGAAGTCCGTGAAGAGCCAGGCGCTGCGGGACGCCATG
GCCAGGCAGCTGAGCAGGATGCAGCAGATGGAGCTGGCCTCAGGCGCCCCCAGGCCCCGAAGGCGTCTCAGCA
CCCTCCAGGGCAAGGAGCGCCGGCCTGACTCCCCACACGCCCCACTCTCAGGGGCTCCGAGGAGCCCCACCTG
AAGCATGAAGCCACCAGCGAGGAGGTCTCTCCCCGCGTCCGACTCAGGGGGCCAGATGGCTCTTTCACTTCA
TCCGAGGGCTCCAGTGGGAAGAGCAAGAAGAGGTCTCACTCTTCTCCCCCGCAGAAACAAGAAGGAGAAGAAG
TCCAAGGGCAGGGCCGGCCCCCGGAGAAGCCAGCTCCAACCTCCTAGAAGAAGCCGCCGCCAAACCAAGTCC
CTGTGGAAGTCCGCTTCTTCCGGGTACAAGAAGGACAAGAAGAAGGCGGACGACAAGTCTGCCACGACC
CCCTCCAGCGGGGCCACGGTGGACTCTGGAAGACACAGGTGCTTCCCGTCTGAAGGCGAGAGCTGCAGCTCCGG
CGCCAGCTGAGCTTCTCCGAGGACTCAGACCTCTCCAGGACGATGTCTTGAAGATCCTCAGAGAAGTCCCGG
CGAGAGCCAAGAACCTACACGGAGGAGGAAGTGAATGCCAAGCTGACCCGCGGTGTGAAAAGGCAGCTCGGAGA
CAGGCCAAGCAGGAGGAGCTTAAGCGGCTGCATCGAGCCAGATCATCCAGCGGCAGCTGCAGCAGGTGGAGGAG
AGGCAGCGGCGGCTGGAGGAAAGGGGCGTGGCTGTGGAGAAGGCGCTCCGGGGCGAAGCAGGCATGGGCAAGAAG
GACGACCCCAAGCTGATGCAGGAGTGGTTCAAGCTAGTGCAGGAGAAGAAGCCATGGTGCCTACGAGTCCGAG
CTGATGATCTTTGCCCGGAGCTGGAGCTGGAGACCGGCAGAGTCACTGCAGCAGGAGCTCCGGGAACGCATG
GCAGTGAAGATCACCTTAAGACTGAGGAGGAGCTGTGAGAAGAGAAGCAGATTCTCAATGAGATGCTGGAGGTG
GTGGAGCAGAGAGACTCACTGGTGGCGCTGCTGGAGGAGCAGCGGCTCCGGGAGAGAGAGGAGGACAAGGACCTG
GAGGCTGCCATGCTGTCCAAGGGCTTACGCCCTTAAGTGGTCTGAGCTCCCAACCAACGCTCCATTTTCTGTTGG
CATCCGCTGGCCAGGAGTGGCATCCAAACCACCGGAGCCGCGATCTGAGGAGGCTGGCACCTCCTTGGAGT
TTACGCTCAGATGCCCGTGTGCTGCTTGGAAAGTGGTTCAGTCCCGCTGCACTGGGGAGCCCCAGGTGACAGTG
GTTATCTGAGACGGCTCCACCTCCTGGGAGGAGGCCACCTGGACCTCCCACTCAGAGGAGCAGCAGGCGTGTA
TGGCATGACGAGGGGACCAACCCCGCGCTCCCTGAGGATGTGCTGGCTGTGCCCCCTTTTTTCCACTGGCACAT
TTGGTAAGAGAGGGAAGCTGCTCCCCGTGAGAACCACAGTGCGCCGTGCGAGGGGCACTGTCTTCTCATGCTCC
CTGGAGCACCAACAAAGAAACGTAAACAATACCCACGAAAGCAGGGTCAAGGGTCAAGGTGCGATCGAGACCCA
GGATGGGGCGCTCAGTCATGCCACCCAGCATCACAGGAGACATGGAGGTGCGGGCAGGCTCCTGAATTATTA
TGCAAATTAGGAGGACGAGGAGGGTCTGCCCTCCAGCCGAACACACACTGGACCCTAAGTGGCCAAATGC

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FIGURE 5943B

CTGGGCCGCTTGCTGGCTGTGGCCTGAGGCTTGTGGGTGCTGCATTTTGCTTGTAGTTCACAACCATTTTGACA
CTGGAATATGCTGACTTTGGGGGACAGGATGAGGCCCTACATTCTAAGCCCCAGTTGGCAGACAGGCATTGTCC
CTGTTCCACATTTATGTCGGGACAGGAGATGACCTTTTCCCTCCGTGTTTTTCCCTGTGTTTGACAGTTGAAATGAA
GCTGACAACCTGGCAAGACGCTCAGCCGCTTCAAACCCCTTTTGTCAATTAACCTATTTTTTAATACTTGAAAAG
AAGTAACCTTCGTTTGTGTATCTTTACTAGAGGAACGTATCACCTGCGCCCGGGTGCAGGAGCCACAGCGGCATCT
GGTGCCTCCTACGCGACCTGGTCCGGGGCTGCCCGGTGCTCCTCACGTGCATCTATTTATTAGCCTTTCTCTTCG
TATCACTGGCCTGGCTGGCATCAGGGAGCTGCCAGAACCCCTGTGTGGGTCTCCTCACAGCTTTCTGTCCCTC
CCTCCACCCGGTGCCTGCCTCACCCTGGCGCTAGACCATCTGGACCACTCATGTGATGAGGGTGCATTTCCGTTT
TGTTTTGGGCCAGGCCAACAGCAGAGCTGCCACTCTCACCCTCCCAGTGAGAATTCCGGCTCTGCAGAACTCGCC
CTGTCTCAGTTTGGGGGCCAGGGCATCACCTTCCTCCGCACATATGTTAAAGAAGGTTTCAGGATGGGGCCCTCA
TCCACACAGGCCAAGAGGGTGCAAGGTGGGACCCTGGAATCATGTGGCTGGTGAGAATCCCTCCTCCAGCCCTA
AGATTACCCAGACGAAACGCGAGTGTGTCAGTGGATGCTGGGATGCAGGCTGGTGCCTCTCAAGCAGATCAGC
GACTCCCGCCCTTCCTTCCGAAGGCGACGGGCACCTGCCTTGTGCCGGATCTTCATGGGGACATAAAGGGCGAGC
CCGAATCACTAGCTCCTATAGCCAACTGTTCTTTCTCACGGTTCCGCACCAAGCCTGGCTGTGTACAGCTCAT
CAAGCCACTGAGCTAATCGGGGTGGGGTGCTTGTCCATCAAAGCAGTCAGCACATAGCCCAGCGAGGAGCCATCC
GGACCAGACCCGCTGCCAGGGGCGCTCCAGCCGCTGCCGCTCCGTGGGCTGGGGCCAGCTGGGAGCAGAGGC
CTGGCCCTCCAAGCGCTCCCGCAGTGGAGCAGGCTGAGTGGCTGTGCTGACCTTGGGCTTTCCATGGGAACCAC
ACTGTGCTTCAACTTGAACATTATCCAGCTGCAAAGGAGCAAAGAACCCTGTGTATCCTTGTCTGTCCAGAAG
CTGCCATCTCTCTCCCATGCACATCCGGGAGATAACGCCCTAGTGGCCGCCACAGCGCTGATTCTCCACCTGTT
CTCACGTGAGGCAAAGGTCTCCTTTTCTTTTCTTTTACTTAAAAAAGGGGAGAGGAGGGTTTCTAGATTCCATC
TTCAAACCCAGTCGTCCTATAAAATTGGACGTGGGAAAAGACCTTCACTGCCTGCGTGGCCTTTCCAGACCTC
TCCTCGAATGCCACAAAACCGGTCCAGCCCCGGCAGAGCCGCTTCGGCCCTTGTAGCTCCTGCTGGCCCCACAA
CAGGGAAACAGTTTGCAAAGTGGCTTGGGAAGGAGTGTGGCCTAGGGATCTGCTGTAAGTGGCCAGACGTAGCAGG
AGAGCCAGTGTACCTTCTGGTCTGGTCAGCCTTAACACTGTGGCATCCTCCACAGCACACAGGCAGCCTGC
AGTCTGGAAGGTGGACCCGAGCCTTTGCGAGAGAGCGCCGAGAGCCGAGGCCTGCGCCCCAGCCTTCTGTCC
CGACTGTGAGGACACCCAGTTCTAGTAGAGCACTTTTTTAAAGCTCCCATTTTGTAACCACTAGTTTGGGTTG
ACTTGAGTACTCTGGTGACTTCTGCGTCAAGCGTTCTCAAGCTGTGAGAATGTGCGCAGCTCCAGGCAGGTTTT
CTCTCGGAGAGTTAAGTCTTCCCTTGAAGGCAGGGAAGCAGGATGGATACACATATATCACACGCATAAAACACC
AGGTGCGGGAGCAGCCAGACTCAAGGCTGACTAACTGGAGGCTGAATACCGTGGAGGTCCACATGCAGCTTCC
CTGGAGGGCAGGCCGGAGGCGCTCCCGCCCTGGGCTTGGAGATGCTGCACCCCGTGGGCTTCCAGGCCTGCCCA
GATGATGCCTTACGGCCTCTGTCCCTGGCGGCCATCCTCAGGCCGATTTTGACCAGCAATGATAGACTCTTCTTA
ACCCCTTCAAATAAATTTTTCAGTGGGACAGAAAGGAGAGTTAAAAAACATTTTTTAAAGGTGGTAACATCTG
ACCCACAAAGGGAATGGGTCTGTTTTATGCAAAATAAAAGTTTTTCAAAT

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FIGURE 5944

MHAADPLEIQADVHWTHIREREEERMAPASESSASGAPLDENDLEEDVDSEPAEIEGEAAEDGDPGDTGAELDD
DQHWSDSPSDADRELRLPCPAEGEAELELRVSEDEEKLPASPKHQERGSPQATSPIRSPQESALLFIPVHSPSTE
GPQLPPVPAATQEKSPPEERLFPEPLLPKEPKADAPSDLKAVHSPIRSQPVTLPARTPVSPGSPQPPVAAST
PPPSPLPICSPQPPSTEATVPSPSTQSPIRFQPAPAKTSTPLAPLPVQSQSDTKDRLGSP LAVDEALRRSDLVEEF
WMKSAEIRRSIGLTPVDRSKGPEPSFPTPAFRPVSLKSYSVEKSPQDEGLHLLKPLSIPKRLGLPKPEGEPLSLP
TPRSPSDRELRS AQEERELSSSSSGLGLHGSSSNMKTLSQSFNSTSDSAMLTPPSSPPPPPPPGEEPATLRRKLR
EAEPNASVVPPLPATWMRPPREPAQPPREEVRKSFVESVEEIPFADDVEDTYDDKTEDSSLQEKFFTPPSCWPR
PEKPRHPPLAKENGRPLPALEGTLPQKRGPLVSAEAKELAEERMAREKSVKSQALRDAMARQLSRMQOMELAS
GAPRPRKASSAPSQGKERPDSPTRPTLRGSEETLKHEATSEEVLSPPSDSGGPDGSFTSSEGSSGKSKKRSSL
FSPRRNKKEKSKGEGRPPEKPSSNLEEAAKPKSLWKS VFSGYKKDKKKKADDKSCPSTPSSGATVDSGKHRV
LPVVRAELQLRRQLSFSESDLSDDVLEKSSQKSRREPRTYTEEELNAKLTRRVQKAARRQAKQEELKRLHRAQ
IIQRQLQQVEERQRRLEERGVAVEKALRGEAGMGKKDDPKLMQEWFKLVQEK NAMVRYESELMIFARELELEDRO
SRLQQELRERMAVEDHLKTEEELSEEKQILNEMLEVVEQRDSLVALLEEQLREREEDKDLEAAMLSKGFSLNWS

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FIGURE 5945

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCCTAGCCGGGCGACGCCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGAGGAGCAGGACGCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCAGTGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACCTTTCTGACTTATCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTCAGGCCCTT
CCATGAACAGATCGTCATTGTCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCAGAGTGCACATAAGGAGCACCAACCGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCGTGGAGAATTACGCATCAAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACCTCCTTTTATAATTATTCAGTGCTTTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCAGAGTGTCTATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTCTATATGTCACAAAAGAAATTGCCTTACACTGGTTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTTGTACAGCCAAAATAATGTATATATGGAATGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTAATATGGTTTTTCAGTGCTAAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGAAAACCTCCTTTCAGGTTTTTGCAAGTAGATTTGTAAATGTTTGTGATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCCAGTGCCTCACACTATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5946

GGGGCCTGGCTCGGACCACGCGGGGCGGGACCTGGAGCTGACGCGGCCGCCCCGCCCTGGGACCATAACCGGCC
GCCGCCGCCACCGCGGACCAGCGCGGAGTTCTGGAGTCTCGGACCCGAAGCCGCCACAGGGCGCCCCGCCTCCC
GCCCCCATGCCCCGCGCCCCGCCCCGCGCTCTGGCGGGCCGCGCGCCCCGCTCCGGGAAGGCCAAGCTGAC
GCACCCGGGGAAGGCGATCCTGGCAGGCGGCCTGGCGGGTGGCATCGAGATCTGCATCACCTTCCCCACCGAGTA
CGTGAAGACGAGCTGCAGCTGGACGAGCGCTCGCACCCGCGCGGTACCGGGGCATCGGGGACTGCGTGCGGCA
GACGGTTTCGACGCCATGGCGTCTGGGCCTGTACCGCGGCCCTTAGCTCCCTGCTCTACGGTTCCATCCCCAAGGC
GGCCGTCAGSTTTGGAATGTTTCAGTTTCCTCAGCAACCACATGCGGGATGCCAGGGACGGCTGGACAGCACGCG
TGGGCTGCTGTGCGGCCTGGGCGTGGCGTGGCCGAGGCCGTGGTGGTGTGTGCCCCATGGAGACCATCAAGGT
GAAGTTCATCCACGACCAGACCTCCCCAAACCCCAAGTACAGAGGATTCTTCCACGGGGTTAGGGAGATTGTGCG
GGAACAAGGGCTGAAGGGGACGTACCAGGGCCTCACAGCCACTGTCTGAAGCAGGGCTCGAACCAGGCCATCCG
CTTCTTCGTTCATGACCTCCCTGCGCAACTGGTACCAGGGGACAACCCCAACAAGCCCATGAACCCTCTGATCAC
TGGGGTCTTCGGAGCTATTGACGCGCAGCCAGTGTCTTTGGAAACACTCCTCTGGATGTGATTAAGACCCGGAT
GCAGGGCCTGGAGGCGCACAAATACCGGAACACGTGGGACTGCGGCTTGACAGATCCTGAAGAAGGAGGGGCTCAA
GGCGTGAGTGGGGGAGGGGAGGGCTATTGTCCCCACCTCAAACCTTTCCCGGCCTACCTGGCCTGCCCACTCTG
TCCCCCTTCAGGCCTCTGTGCCTCTCACTTCAGTATCTGGGGATTGCCCTGTGCAGGGACACTGTGCTGACCTGCC
TTCTCTCCCCGCCCTCCTCCACCCAGATTCTACAAGGGCACTGTCCCCCGCCTGGGCCGGGTCTGCCTGGAT
GTGGCCATAGTGTGTTGTTCATCTATGATGAAGTGGTGAAGCTGCTCAACAAAGTGTGGAAGACGGACTAAGCCTAG
AGAGGCCGCAAGGGGACCGCCCCAGGCACCGCCAGAGTGTCTGTACCTTTGTCTCACGATTCCAGTGCAGTAG
TGCCAAAAGGCCCTTCCCACGTCCCTCGAGCTCTGTAGCCTGGTCTGTGCATTGTGGCTGTCAAATCCATGTGT
CCCCCTGTGGTCTGTGTGTGACACCACCACTGTGTCCCAGTGTCTGGCCCAGCCATGGCTGGATGTGCATCTGG
CCTATGACCTGTGCCTGTGTTTCATGTTCTGTGTACGTGACCTGTGCCCCGCTCCCGGGGTGCCCGTGTGG
CCTGGGTCTTCGGCCCTGTAGCCCTGGCCCCGTCCAGTCCGGTGCCTTCCACCCTGCCCTGGCCTACCACAGCT
GCCTCCGGGCCTCGGCCTGGCTTCACCGCATTCAGGGGCTGCAGCCCCCTGCTTCTCCCGCCATTGGCCTTAAC
TGGCCCTCGGGCCCTCTCTCGCCCCGACAGGGTGGCACCCACCCTCTCAGGACCACCCTGCCAAGGCAGAAT
AAACCGGATCCTGTTGC

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FIGURE 5947

AGTAAGCCGGGCTGCCGTCTTCTCGCCATCGGCTCCGGGCCGCGCGGGGCGCTGAGCTTACTGCTCCTGCTGCTG
GCCCCGCCGAGCCGCCCGGCCGAGGTTGCCCGGCGCCCTGTAGCTGCGCGGGGACGCTCGTGGACTGCGGGCGC
CGCGGGCTGACTTGGGCCTCGCTGCCGACCGCCTTCCCTGTCGACACAACCGAGCTGGTGCTGACCGGCAACAAC
CTGACGGCGCTGCCGCCGGGGCTGTGGACGCGCTGCCCGCGCTGCGCACCGCACACCTGGGCGCCAACCCCTGG
CGCTGCGACTGCCGCCTTGTGCCGCTGCGCGCCTGGCTGGCCGGCCGCCCGAGCGTGCGCCCTACCGCGACCTG
CGTTGCGTGGCGCCCCAGCGCTGCGCGGCCGCTGCTGCCCTATCTGGCCGAGGACGAGCTGCGCGCCGCTTGC
GCTCCCGGCCCGCTCTGCTGGGGGGCGCTGGCGGCGCAGCTTGCGCTGCTGGGCCTTGGGCTGCTGCACGCGTTG
CTGCTGGTGCTGCTGCTGTGCCGCTGCGGAGGCTGCGGGCCCCGGGCCCGCTCGCGCCGACGCCGGCTGTG
CTGACCGACCCGCTGGTGGCCGAGCGAGCCGGAACCGACGAGTCCTGAGGAGAGAACCGGTGCGTCCTGAGGAGA
GAACGGCGCTGGGCAACACGGGCCTGAAACTCGACAGGACCCTGCCCGAGGGGCCCTCGCGCCAACCTGGACC
GGTCCCGCCTCCTCCGCTGCCCAATCTCTCAGACCCACCCACCCTGCAGGCCAGACCACGTGGGACAGAACTC
CTGCCCACCCTACCCCGAGGGAGGCGAACC CGCACTTCCAGGCTTGGGAGGACCATGGGGCACAATGCGGTCCAG
ACCCTGCTGCGTCTCCCTTCCAAACTCTGGTGCTGAATAAACCCCTTCTGATCTGG

6444/6881
FIGURE 5948

MSGGPRGALSLLLLLAPPSPPAAGCPAPCSCAGTLVDCGRRGLTWASLPTAFFVDTTTELVLGTGNNLTALPPGLL
DALPALRTAHLGANPWRCDCRLVPLRAWLAGRPERAPYRDLRCVAPPALRGRLLPYLAEDELRAACAPGPLCWGA
LAAQLALLGLGLLHALLLVLLLCRLRRLRARARARAAAARSLTDPLVAERAGTDES

6445/6881
FIGURE 5949

CCCAAGATGCCAAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCTGGCCCCCTGCTGTCATGAAGAAGCAGGAG
GCTAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATCGGACAGGACATCCAGCCCCAA
AGAGACCTCACCCACTTTGTGAAATGGCCCCGCTATATCAGGCTGCTGGCAAACGGGACGTCCCCACCAAGAGAC
CACCTGTCCTTCGAGCAGGAGTTAACATCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTG
CAGACGACGTGGATCCCATCGAGCTGGTTGTCTTCTTGCCCTGCCTTGTGTCGTAAAATGGGGGTCCCTTACTGCA
TTATCAAGGGGAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACCACTGTCACCTTCACATAGGTGA
ACTCGGAAGACAAAGGCACTTTGGCTAAGCTGATGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGA
TCCGCCGTCACCTGGGGCGGCAACATCCTGGGTCCTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGG
CTAAAGAACTTGCCACTAAACTGGGTAAATGTACACTGTTGAGTTTTCTGTACATTAAATAATTAAATAATA
CAAATTTTCCTTC

6446/6881
FIGURE 5950

CTGCCGTGTGCTGAGGGCCAGTCATGCAGCATCCACCTAGGCAGGCTTGAGAGTCCTTGGGAGAGTCCAGGTGA
CCTGGTTTTTAATTAAAACGCGTCCTGTTTATTGTGGTTGGGCTCTGCCAGAAAGGAAGGTAGGGCCTTGAAGT
GGTGATGTCCAGGTTTCCTGCACAGGTAGGGTGGAGGCAACGATGGACTCTGGCATGGCCTTCCAGACAGGCAGT
GCACACAGCTCCTTTTCAGAGTGGCTTTGTTGCCAGCTGCTGCAGCACCTGCTTTCAGACAGATGATGACCAAGCT
GCTTTCCTGCTGGGGGAAGGAGGCATTCCCCCTGGGTTGTTTTCTCTTCTGGCCCCACACACTGGCAGACCCG
AAGGCAGGGTGCTCAGGAGCTGCAGAGCCTGGCAGGGTTTGCTGGACATGCTCAGGGACGGGCCATGGTGCTGGC
TCTGCTTTCTAATCATGGTGTGAGTCCCTTCACTTCCCTTGGAAATACCCAGAGATTTTATTTCTGAAGATAGGA
CATGATGGGTGCTGTGAGATGGTATTTAAAGTACCTGTCTGCAAGGAAAACTTTAAAAATAGGAAGTACTAAGGAT
AAGGTCCTATGGGATATTGGAATATTTTATAAAGCCACAATAGTTAAAGCACTTATGATGTGGACAGATGAGCAGA
GAATAGAGGACTTTGAAACGGGCCAAATAAATATGGAAATTTAGTACAGGCTAGAGGTGTTTCCAATTAACGAGT
AAAATGGATTATTTCAGTAAAGCAGTTGGCCCTCTGGAATAAGTAAAGCCATGTATGTGCCTCACTCTTTATGC
CAGTACATATTCCAGATTAAAGATTTCAATGTTACAATTATGAAAGTACTAGAGGAAAATATGGGTGAATTTTT
TTTTTTTTTTTTTGGCCTATGATTCCAGGATTTTAAAGTTTTAGATGCCAGAGTTGTGGAGSTATGGAGAAG
TGGACCTTCTCACTGTTGGTGGGAATACACAATAATAATTGACCACGTAACAATCTAGGCACATGCATG
CTGTGACTACTTGCTAGGTGCATGAAGGCTCTTGCCAGGGGTGGTCATGGTTCCGTACCACTACATGGGGGTTA
GAGCAGGGACTGGAGGTTGGCCTTGCCCTCCTCCCTCCCGCATGAGCTGAGGGTCCTTACCTGACCTTTTGAG
CTGTGACCAGAGTTTTTCTCATGGGGTGGTTAGAAGGGTTGAATGAGAATGATGCCATGCAGTGCCTTGGCTG
GGGTCTGGGCCCTCTAACACCCACCTCATGGGTGTCACTGTTTTTGAACAGCAGAACTGGAAGCCCAAGAT
CCAGCAATAAAGGAGCAAGGCAATAAAGCTGTTACCCTGCAGGATCAGTCAGCATGAGCCAGATTGTGTGTCAG
TAACAAAGATCTCCAACAGCGCAGCGGCTACAGTTGGCACTGCTTATTTCTTGCTTGACCTGTGGGCCACCGTG
GCTGGGGCCTGTGACACCTGTGCTGACGACAGCCTACCTGGACATATTTCTCCATGCTCACTGAGGCAGGGGAAA
GGCCACAGCAGGCCACAAGTAATGTGTGTACCCCACTTCCATTTCTGTGGCCAAAGGAAGCCACAGAGCCACAC
CTGAGTTCCATAGGACGGCAGCAGCTGATCATCCTATGGGCTGGGGTGTCTCAGTATGGAGAAGTACAAGCAGCCA
CCCAGCGTGGGGCTGGTTGGTGCTGCTGAGGATGGGAGGATGGGAGGGCCTGCATCCATCCCAGGGCAACATAC
CTGTTTGTCTGCTGGGGCTGCCTGACAAAGGACCGCAGGCTAGGGGACTTAAACAACAGACATTTCTCATGATT
CTGGAGCTAGAAGCCTGAGATCAAGGTGTGGGCAGGGTTGGTTTTCTCTGAGGCCTCGCTCCTTGGCCTGCAGAT
AGCCATCTTCTTGCCGTGTCCCTGTCTGTGCTGTGTCCTAATCTCTCATAAGCTCACTAGTCTATTGGATCAGG
GCCCACCTCATGACCTCATTTAACCTGAATTACCTCTTTAAAGACCCTGTCTTCAAATGTAAGTACTAGGGGT
TAGGACTTGAACATAAAAAATATTGAAGGGACATAGTTCTGCCACAGCGGTGCCCGGATAGGCTTCTCTGGTTT
TGTCTTTGCTGTCTCTGGCAGCGCTATATTGGGCAGGCTTCTGTGGTCTCCACATGCCTGTGTGCAGAGTCCCCC
AGGCCCTGGGTTCTGGGGCCCACTGAGGAGTGGGGATGGCCAAGCCTTGGCTGTTGAGTAGGCAGTGGCCAGT
TGTGCTGTATGGGATGCTGTTTTCACTTAAGAAATCTTTCCCTACCTGGGGGTACAAAGGCATTATCCTGTAT
TCCCAGGTTGTAACTTTCTGCCTTTGACATTCAACCTTGAGTCCACCTGTAAGTGTAAGTGCAGGAGGGAGG
GGTCTGCTGTCTCCTTGATAGCCTGTGATGAGCAGAGCCCTCTGCCGACCGCGATGCACATGTAATATGAGCA
AGAAATAAATTTTTGATGTGCGAAGCCACTG

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FIGURE 5951

GGCACGAGGCTCCCCGTGTGCTCCAGCATGCCTCGTGGCCGGTGCCGTCAGCAGGGCCCTCGCATTCCCATCTGG
GCAGCCGCCAATTATGCCAACGCACATCCATGGCAGCAGATGGACAAGGCGTCTCCTGGGGTGGCATAACCCCC
CTTGTGGATCCCTGGATTGAGCGGCCCTGCTGTGGGGACACCGTGTGTGTGCGAACGACC**ATCG**SAGCAGAAGAGC
ACAGCTAGTGGCACTTGTGGCGGTAAACCTGCAGAAAGGGGTCCCCCTAGCTGGGCACATGCCAGCTCCCCAGCC
CACAGGGTGGACTTCTGCTGGGTACCAGGCTCAGACCCAGGCACCTTTGATGGCTCCCCGTGGCTACTGGACCGC
TTCTTGGCCCAGCTGGGCGATTACATGTCCTTCCACTTTGAGCACTATCAGGACAACATCAGCCGTGTCTGCCGAG
ATCTCAGGCGCCTAACAGGCGGAGCCAGGCCTGGGCAGCCCCCTACCTTGATGGGGACCTGCCCTGCGTGAC
GATTACGAGCTCTTCTGCCAGGATCTCAAGGAAGTTGTTCAAGACCCGAACAGTTTTGTGAGTACCATGCTGTG
GTTACCTGTCCCCTGCCCCCTGGCCTCCAGCCAGCTGCCAGTGGCCCCCTCAGCTGCCTGTGGTGAGGCAATACTTA
GCTAGGTTCTTAGAGGGCCTGGCACTCGACATGGGTACTGCCCCCAGGTCTTTACCAGCCGCCATGGCCACCCCT
GCTGTGTCTGGGTCCAACCTCTGTATCTAGAAGTGCTCTGTTGAGCAGCAGCTGACCAAGGAGAGCACCCCTGGG
CCCAAGGAGCCCCCAGTCTGCCCAGTTCTACATGTAGCTCCAAGCCTGGTCCTGTGGAACCAAGCCTCTTCCAG
CCAGAGGAGGCAGCCCCACACCTGTCCCTAGACTGTGCGAGTCAGCTAATCCTCCTGCCAGAGACCAGACCCA
GCTCATCCAGGAGGTCCAAAACCCAGAAAAACAGAGGAGGAGGTTTTGGAGACAGAGGGAGACCAGGAGGTGTCC
TTAGGTACCCACAGGAGGTGGTGGAGGCCCCGGAGACCCAGGAGAGCCACCACTTTCTCCTGGGTTCT**TGAACA**
CAGCCCAGGTGGGAACAATGCTGCCCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCCCCAGTC
AGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCTGCGCTG
AGCAGAACCAGTCCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCTCTCTGC
TGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCAGGCCTGCTCCACGAGGGGGTGGTTTTGTAGATCAA
CTCTCAGCAGATAGTTGCATCATCTTTGTACCTCCACCCCCATAAAACACCCCCCTTGGTGTCTTCCACACTGG
CTGGGACTGAACGGGTCTGCCACGTCTGCCCTGTGGGACCTCGTTCCCTGTATGGGGTTTCTGTGTCTGTCCCC
CTAGCCCCACCCTCTCTGCTCCCTGTGACTTCTGTCCAGCTGGAATGTGAGGAAGGCTGCCTGGAGGAAGTGGC
CACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGATGTTTCTGTGGGATTACCAGCAGTTC
TGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCCCTTGCCAGGCTCAGCTGCAGGCATTGCCC
TTTGTGTGTTAACTGTAGCTCTAATCGTGCCTGGTGTCTGAAGCAGGCTCCTCTTCCCTGCTGCTGTGTGTC
CATCCCCCTGCTCACTCCGCACTCGCATGCATTGCGGATTAGCACTTAAGCCCTAGTGTGTAAATGACTTGATC
TCCCTCCTGGCAGACTGTGACCCTCAGCACAGGGGCTGTGCTTAGTCAGCTCTGTGGCCTGGTACACAATTGGT
GCTCATTAAACACGTGTTGGATTACTGGCAAAAAAAAAAAAAAAAAA

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FIGURE 5952

MEQKSTASGTCGGKPAERGPLAGHMPSSRPHRVDFCWVPGSDPGTFDGSPWLLDRFLAQLGDYMSFHFHEYQDNI
SRVCEILRRLTGRAQAWAAPYLDGDLPLPDDYELFCQDLKEVVQDPNSFAEYHAVVTCPLPLASSQLPVAPQLPV
VRQYLARFLEGLALDMGTAPRSLPAAMATPAVSGSNSVSRSALEQQLTKESTPGPKPEPPVLPSSCCKPGPVE
PASSQPEEAAPTVPRLSESANPPAQRDPAPHPGGPKPKTEEEVLETEGDQEVSLGTFQEVVEAPETPGEPPLS
PGF

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FIGURE 5953

TGAACACAGCCCAGGTGGGAACAATGCTGCCCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCC
CCAGTCAGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGA¹CTCT
GCGCTGAGCAGAACCAGCTCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCT
CTCTGCTGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCAGGCCTGCTCCCACGAGGGGGTCGTTTTGTA
GATCAACTCTCAGCAGATAGTTGCATCATCTTTGTACCTCCACCCCATCGTCTGCCCTGTTGGGACCTCGTTC
CTGTATGGGGTTTCTGTGCTGTGTCCCCCTAGCCCCACCCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATG
TGAGGAAGGCTGCCTGGAGGAAGTGGCCACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGA
TGTTTCCTGTGGGATTACCAGCAGTTCTGGGCAGCTGGAAGGTTTGATGCAGGAAGGTGGGATGCAAGCCCCTT
GCCAGGCTCAGCTGCAGGCATTGCCCCTTG

[illegible]

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FIGURE 5955

MAAMAVLRGLGGRFRWRTQAVAGGVRGAARGAAAGORDYDLLVVGGGSGGLACAKEAAQLGRKVAVVDYVEPSP
QGTRWGLGGTCVNVGCIPKKLMHQAALLGGLIQDAPNYGWEVAQPVPHDWRKMAEAVQNHVKSLSNWGHRVQLQDR
KVKYFNIKASFVDEHTVCGVAKGGKEILLSADHIIATGGRPRYPHTHIEGALEYGITSDDIFWLKESPGKTLVVG
ASYVALECAGFLTIGGLDTTIMMRSIPLRGFDQQMSSMVIEWMASHGTRFLRGCAPSRVRRLPDGQLQVTWEDST
TGKEDTGTFTVLWAIGRVPDTRSLNLEKAGVDTSPDTQKILVDSREATSVPHIYAIGDVVEGRPELTPIAIMAG
RLLVQRLFEGGSSDLMDYDNVPTTVFTPLEYGCVGLSEEEAVARHGQEHVEVYHAYKPLEFTVAGRDASQCYVKM
VCLREPPQLVLGLHFLGPNAGEVTQGFALGIKCGASYAQVMRTVGIHPTCSEEVVKLRISKRSGLDPTVTGCRV

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FIGURE 5956

CACCGCCATTGCCGCCATCGTCGTGGGGCTTCTGGGGCAGCTAGGGCTGCCCGCCGCGCTGCCTGCGCCGGACCG
GGGCGGGTCCAGTCCCGGGCGGGCCGTCGCGGGAGAGAAATAACATCTGCTTTGCTGCCGAGCCAGAGGAGACCC
CAGACCCCTCCCGCAGCCAGAGGGCTGGAGCCTGCTCAGAGGTGCTTTGAAGATGCCGGAGGCCCCGCTCTGCT
GTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGGCCT
GTGCTTATCGGCTGGAACGAGTTCATCCTGCAGCCCATCCAACCTGCTCATGGGTGACACCAAGGAGCAGCG
CATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTACTG
CGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGAAGATCGTGACGCCGTGATTGAGGAGCACCA
GCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCGCCTGCTGTCACCAGG
GGCGAGGCTCATCACCATCGAGATCAACCCGACTGTGCCGCCATCAGCCAGCGATGGTGGATTTGCTGGCGT
GAAGGACAAGGTCACCCCTTGTTGGTGGAGCGTCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGTGGA
CACACTGGACATGGTCTTCCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTTGAGGAATGTGG
CCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCAGGTGCGCCAGACTTCTTAGCACACGT
GCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTCCCTGGAATACAGGGAGGTGGTGGACGGCCTGGA
GAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCTGACTGCCCCCGGGCCCCCTCTCGGGCTCTCTC
ACCCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATGCAA
AGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTAA
GACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAATAT
AAAATAGAAATTAA

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FIGURE 5957

MPEAPPLLLAAVLLGLVLLVLLLLLLRRHWGWLCLIGWNEFILQPIHNLLMGDTKEQRILNHVLQHAEPGNAQSV
LEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLELGAYCGYSAVRMARLLSPGARLITIEINPDCAAITQ
RMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPDTLLLEECGLLRKGTVLLADNVICPG
APDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPSEAGP

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FIGURE 5958

GCTGTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGG
CCTGTGCCTTATCGGCTGGAACGAGTTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCA
GCGCATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTA
CTGCGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTGAGGAGCA
CCAGCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCGCTGCTGTCACC
AGGGGCGAGGCTCATCACCATCGAGATCAACCCGACTGTGCCGCCATCACCAGCGGATGGTGGATTTCGCTGG
CGTGAAGGACAAGGTCACCCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGT
GGACACACTGGACATGGTCTTCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTGGAGGAATG
TGGCCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCAGGTGCCAGACTTCCTAGCACA
CGTGCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTTCTGGAATACAGGGAGGTGGTGGACGGCCT
GGAGAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCTTGACTGCCCCCCCCGGCCCCCTCTCGGGCTCT
CTCACCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCTAAATG
CAAAGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAAGTGAACACTGGATTGTTCTTTT
TAAGACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAA
TATAAAATAGAAATTAA

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FIGURE 5959

MGDTKEQRILNHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLELGAYCGYSAVR
MARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVTLDMVFLDHWKDRYLPD
TLLLEECGLLRKGTVLLADNVICPGAPDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPSEAGP

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FIGURE 5960A

GGCGGTCCGTCGGTGAGGCTTTCCCGGCTGTGGTTTGGCTGCGGGCGGCTTGGGCAGCCCGCGGGCGCCTCAGGT
AGAAGAAGAAAGGTGCCACTCCGGCATGAAGACAGACTCGCTTAGTCGCCAGTCACTTAAGCTGAGTGCATTGTG
ATTTCCAATAATTGAGGCAGTGGTTCTAAAAGCTGTCTACATTAATGAAAAGAGCAATGTGGCCAGCTTGACTAA
GCCGCCAGCGCACAGCGCGGCAGGACGCGCCCGGTCTCAGCGGACTTGTGCATGTTAGCTGTGTAGATTTATGT
GAGGGCTTGTAAAACCTCTGGTCTTGTAACCTAGTCTTAAGCGCTTTAATATGGAGACAGATGAGAGCCCCCTCTC
CGCTCCCGTGTGGGCCCCGAGGAGAAGCGGTGATGGAGAGCCGAGCTCGCCCCCTTCCAAGCGCTGCCCGGTGAGC
AGTCTCCACCACCTCCCCTGCAAACGTCCAGTGGTGCAGAGGTAATGGACGTTGGCTCTGGTGGTGTGACAGT
CCGAACCTCCCTGCTGAGGACCCCTTCAACTTCTACGGAGCTTCTCTCTCTCCAAGGATCCTTCTCTAAGGGCC
GCCTCCTCATAGACCCGAACCTGTAGTGGCCACAGCCCGCGCACCGCCCCGGCACGCACCTGCGGTCCGGAAGTTCT
CCCCTGACCTTAAGTTGCTTAAGGATGTAAAGATTAGCGTGAGCTTTACCGAGAGCTGCAGGAGTAAGGACAGGA
AGGTGCTGTACACAGGAGCAGAGCGCGACGTGCGGGCGGAGTGGCTCTGCTCCTTAGCCCTGTGATGGGGACG
TGCATGCTTGTCCCTTTGGCGGGAGTGTGGTGACGGGGTAGGCATAGGGGGTGAGAGTGTGATAAGAGGATG
AGGAGAATGAGCTGGATCAGGAAAAGAGAGTGGAGTATGCAGTGTCTCGATGAGTTAGAAGATTTTACTGACAATT
TGGAGCTAGATGAAGAAGGAGCAGGCGGGTTACGGCTAAAGCAATCGTTCAGAGAGACAGAGTGGATGAAGAGG
CCTTGAATTTCCCTACGAGGATGACTTTGACAACGATGTGGATGCTCTGCTGGAAGAAGGCCTTTGTGCCCCCA
AAAAGAGGCGAACAGAGGAAAAATATGGCGGAGACAGCGACCATCCGTCCGATGGAGAGACAAGTGTGACCCGA
TGATGACCAAGATTAAACAGTGCTCAAAAGTACGTGGCGGCCACCTACAGAGCCGCTGCCCGACGGGTGGATC
ATGACATTCATAACTCTGGAGTCCCGGTGTACCTACACAGAGAGTCTCGGGTGGTACCTGGTCCAGGCCATAC
TTCTTGGGAACGGGAAGCATACGGAACACGACCTCCTCTGAGTAGCATCCCTTGTCTGCATTATAAGAAAATG
AAGGACAACGAGGAACGGGAGCAAAGCAGTGACCTCACCCCTAGTGGGGATGTGTCCCCGTCAAGCCCTGAGC
CGATCTGCAGAGCTGGAGTTTCCCTGGATGAGCTGACTCTATGGGTGCTGACCCGGGGCCCCGGACGAGAAA
GACCCACTAGGGGCTGAGGCAGCCCTGGGGCCCTGGGGCAGGTGAAGGCCAAAGTCGAGGTGTGCAAAGATGAA
TCCGTTGATCTCGAGGAATTTGAAAGCTACCTGGAGAAGCGTTTTGACTTTGAGCAAGTTACTGTGAAAAAATTC
AGGACTTGGGCTGAGCGCGGCAATTCAATCGGGAATGAAGCGGAAGCAGGCGGAGTCCGAGAGGCCCATCTTG
CCAGCCAATCAGAAGCTCATTACTTTATCAGTGCAAGATGCACCCACAAAGAAAGAGTTTGTATTAAACCCCAAC
GGGAAATCCGAGGTCTGCATCCTGCACGAGTACATGCAGCGTGTCTCAAGGTCCGCCCTGTCTATAATTTCTTT
GAATGTGAGAACCCAAAGTGAGCCTTTTGGTGCCCTCGGTGACCATTGATGGTGTGACTTACGGATCTGGAATGCA
AGCAGCAAAAAACTTGCAGAAGATAAAGCTGCCCGAGCTACACTGGAAATCCTCATCCCTGACTTTGTAAACAG
ACCTCTGAAGAGAAGCCCAAAGACAGTGAAGAATCGAGTATTTTAAACCATCAGCATCGAGGACTCGCGGGTC
TACGAGCTGACCAGCAAGGCTGGGCTGTTGTCTCCATATCAGATCCTCCACGAGTGCCTTAAAGAAACCATGGG
ATGGGTGACACGTCTATCAAGTTTGAAGTGGTTCTTGGGAAAAACCAGAAGAGTGAATACGTATGGCGTGTGGC
AAGCACACAGTGCAGCGGGTGGTGTAAAGAACAGAGAGTTGGAAAGCAGTTAGCCTCACAGAAGATCCTCAGCTG
CTGCACCCACATGTCAAGAATGGGGTCTTTACTGCGCATGTATGGCCGTGAGAGCAGCAAGATGGTCAAGCAG
GAGACATCGGACAAGAGTGTGATTGAGCTGCAGCAGTATGCCAAGAAGAACAGCCCAACCTGCACATCCTCAGC
AAGCTCCAAGAGGAGATGAAGAGGCTAGCTGAGGAAAGGGAGGAGACTCGAAAGAAGCCCAAGATGTCCATTGTG
GCGTCCGCCAGCCTGGCGGTGAGCCCTGTGCACCGTGGACGTGTGAGGGAGGTGGCACGGGCCAGGGCGCGGG
GGCCGCCAGCCGCACTTCTGAGGAGACCAGCAGTCATGCATCGTGACCACAGTGTGAGGCCTCCAACCCACGCT
CCTTCCCTGTGGCCAACCTGTGGGCCCGGCCTTAGGGTGGAGGCTTTAGTGTACAGGGACAGCCATGGCCACACA
GCACACATGTGGAGCAGCGGCTCTCCCTGGAAAGCTCCAGGCCTGAATGGATGGACTCAGCGACTGCACCACTGG
CAGCTGGTGACTGTGGACAGTGGTGGACCTGTCTTGTGACCTGCTGCAGGCTCTTTTATGAAGGCTTTCAT
GAATTTTAGTATGTAATACGCACTGACGACACATGATGCTTGGATGACAGATGAGAGGGGATGGCTGAGTCTGT
GGCTGGCCCGTGTATGCCAGGTGGCCCATGTGCCAGGGCGCCTGCAGGGCTGCTACAGGGACCTGGTCAGGAGGT
GCACATGGTGCCCTGCCCTCACCCACCTCTGTGTTTCCCTTCTTTGAAAAGGTAGAAGAGAAAGGAATATTTT
AAACCTTTTTGGCTTAAACAGAATTTTAGCATCAGAACTAGCTTTCTGGGATTGGAGGCAAACCATCAAGGTGGT
CCCTCTCAGTCTGGACACGATGCCAGCAAGGATGACGTCTGCCACCTCCTGGAGTTACCCTGGCCTCTTAGGG
TCCCTTTTTCTGATGAAGTCTTAATTCCCTAAAAGCGCCTCTTTGGACACTGAGGCCCTCTCTGCCTTTCTGGC
CTCCGGCAACAGTTTTTTTACAAAGATTTTTTGAGTGCAGTCCATATGTCCACCCATTGATTTTTTAAAGCTTTTG
TGATATTTTAGCATTTTGAAAGACTTTCACAGTGAGAGTAGAAGGTAGATTTGGAATCATGCATTTTAGCAAGTG

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FIGURE 5960B

GACTTGTTGAAACAGGAAGCAAGGGCCTTCAGTGTAGCCATTCTTGATCCAGAGCTGTTGCCTGTGACAGCGGT
TTCTCTGGATGTCAAAGGCAGCTGCCTGGTGGCCAGCTTGCTTCTCGACTGGTGGCCCCCTATGGGTGGGTGTGCG
ATGGAAATGTGTTCTGCGGAGTCTGAGGCACCAGGGTGTGCTCAAAGGCTGGCCCTGGTGGTGGACTGGCACC
TGTGCAGAGTGCCGTGTGCTTGTTGGTGGCCATCTGAAGCAAGAGTCCAGCGTTCTGCCGTGTCTGTCCCCCACC
ATGCCCCCTACAGGCGGTACTGATGGCGCTTTTTTTTTTTTTCTGTGTCAGGAAAACAATGTTGGCCTGTGGGCCG
CCCACAACATATCCTTCCCTCACTACCTGTGTGACCAAGGTTGGCTTCTGTTGACCTTTAAAAAAGAAACCTCA
ACTCAAATTGCTATAATTAGACACTTGCTTCTGTCTTGCTCTGCTGCTGACGCTGTGAATAGTCATTTGACTGTG
ACTGTTGCCCTTAGCCAGCCAGATGCGCCTGTGAACCAAAGCTTCGTGCACATGTGTTCCCTAAAGGTTGGGGA
GCCTCGCTGTGCTTGTGTGTTCCAGGCACCACCACAGCAGGTGCTGCCATACTCTTGTGGTCTCTGTGCGCCCC
CCCCCCCCCCCCACCCGTCTGCCAAGCATGGGTATGAATCGTGACACAGCCATGCTTCAAGGCCGGGGCAGGGG
AGCCTGTGCTGATGCCATCCAGGGCACTGGGCTGTGCCTGGAAGGCGAGCCTTGATTGTCTGAACACATAAAGCA
AACTGTCCAG

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FIGURE 5961

GTGCCCAGAAGCCAGGATCATAGAGACGCTCGGCCTCCGCCGCACGCGCTGGCGGACTAAGAGTGGCTGGCGAAG
CGAGCGGCCGCGCGGGCCCCCTGGCGGGCGGGCGGTACAGCCCCAAGCCTGAGACCCGGACCTGAGCATCGCAGG
TTCGAGTCCCCGCCCGCCTGGGGCGAAGCCGGGGGTGGCGGCGACCTCGCGGCGTTGCACCGGCTCTGTGAGCAC
CTCCCCCTCTGAGCACTTCCCTTGTGACAGGCCACTTCCCTTGTGACAGGCCAGGACGAGGTGGCCAGGCGGGCC
CCATGGCGTCCCTGGTCTAGGCGGAGAACCGCCTGGGCGCATGAGTGAACCTCGACAACGAGGGGCCGAAGCCC
ATGAGAGCTGTGGCCAGGAGAGCAGCAGTGCCCTGAGCTGCCCTACCGTCTCGGTGCCCTGACAGCCCCGGCA
GCCCTGGAGGAGGTGGAGAAAGAGGGCGCTGGGGCGGTACAGGGCCGGGGCCTCAGCCCGGGCTCTACAGCTAC
ATCAGGGATGACTTGTTTACCTCTGAGATCTTTAACTGGAGCTGCAGAACGTGCCCTCGCCACGCCAGCTTCAGC
GACGTCCGGCGCTTCCCTGGGCCGCTTTGGTCTGCAGCCCCACAAAACCAACTCTTTGGGCAACCAACCTGCGCC
TTTGTGACATTCCGACGCGCTGCAGAGAGGGACAAGGCCCTGCGCGTTTTGCATGGTGGCTCTGGAAAGGCCGC
CCACTCAGTGTGCGCTGGCCCGGCCAAGGCCGACCCCATGGCCAGGAGGAGGCGACAGGAGGTGAGAGTGA
CCACCAGTAACACGAGTGGCCGACGTGGTGACCCCTCTATGGACAGTGCCCTATGCTGAGCAGCTTGAGCGGAAG
CAGCTGGAGTGCAGCAGGTGCTGCAGAACTTGCCAAGGAAATCGGGAGCACCAACCGTGCCCTGCTGCCCTGG
CTGCTCGAGCAGAGGCACAAGCACAACAAGGCCTGCTGCCCGCTGGAGGGGGTCAGGCCATACCCCCAGCAGACT
GAGTATCGTAATAAGTGTGAGTTTCTGGTTGGCGTCGGGTGGATGGGGAGGATAACACCGTGGGCTGTGCGCTC
GGCAAGTACAAGGGCGGGACGTGTGCTGTGGCAGCCCCGTTTGACACCGTGACATCCCCGAAGCCACCAAGCAG
GTGGTGAAGGCCTTCCAGGAGTTTCATCCGGTCCACTCCATACTCGGCATACGACCCAGAGACGTACACAGGCCAC
TGGAAGCAGCTGACTGTGCGCACCCAGCCGCCACCAGGCCATGGCCATTGCCCTACTTCCACCCCCAGAAGCTG
AGCCCTGAGGAGCTGGCAGAGCTGAAGACCTCCCTAGCGCAGCACTTCACAGCAGGGCCAGGCAGGGCCAGTGGA
GTGACCTGCCTCTACTTCGTGGAGGAGGGACAGCGAAAGACTCCTAGCCAGGAGGGCCTGCCCTGGAGCATGTG
GCTGGGGACCGGTGCATCCACGAGGACCTGCTAGGGCTGACCTTCCGGATCTCTCCACACGCCTTCTTCCAGGTG
AACACACCCGCAGCCGAGGTGCTCTACACAGTCATCCAGGACTGGGCCCAATTGGATGCGGGGAGCATGGTGTG
GACGTGTGCTGTGGCACCAGGACCATTTGGCCTGGCCCTGGCCCGGAAGGTAAAGAGGGTCATTGGGGTCGAGCTA
TGCCCAGAGGCTGTGGAGGACGCCCGGGTGAACGCCCAGGACAATGAGTTGAGTAATGTGGAGTTCCACTGCGGG
AGGGCCGAGGACCTGGTGGCCACCCTGGTGGGCAGACTGGCCTCCCAGCACCTCGTGGCCATCCTGGACCCACCC
CGTGTGGCTTGCAATCCAAGGTGATCCTGGCCATCCGGAGAGCTAAGAACCCTCAGGCGGCTGCTGTACGTCTCA
TGCAACCCCGGGCAGCCATGGGCAACTTTGTGGACGCCCCCTTTTCCCCCAGACCTCTGCAGAGCCCCATC
TAACCGGGTGAAGGGCATTCCCTTCCGGCCGGTCAAGGCTGTGGCAGTGGACCTGTTCGCCGAGACCCCGCACTG
TGAGATGCTCATCTGTGTTGAGAGGGTGGAGCACCCCAATGGCACAGGGGTCTTGGGGCCCCACAGCCCTCCAGC
TCAACCCACACAGGACCCCCAGATAACACCCCTACAAGAACTGGGACCTTCCCTCATCCTAGGCCAGGACCC
ATTATGGGGACAGGAGCTGAAGGGCTCCCAGGGCCCCAGGGGGCGGGGAAGGCATGGCTTGCTGGCCAGGATATTC
AGAGGTAGGCAGCCAAAGGGCACAGAACCCTGTGCCCCACCAGGATTGGCCTGCTGCTAGGGGCCAGGGGCCCTG
ACCAGGAAGACAGGTGGGTTCTGTAGCCTGTTGCCCATCCCCAGGGCCTTTGTGGACTAGCCAAGGCTGTGAGG
GCCAGAATAAACAACCTGCTCAAC

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FIGURE 5962

MSENLDNEGPKPMESCGQESSALSCTVSVPPAAPALEEVEKEGAGAATGPGPQPGLYSYIRDDLFTSEIFKL
ELQNVPRHASFSDVRRFLGRFGLQPHKTKLFGQPPCAFVTFRSAAERDKALRVLHGALWKGRPLSVRLARPKADP
MARRRRQEGESEPPVTRVADVVTPLWTVPYAEQLERKQLECEQVLQKLAKKEIGSTNRALLPWLEQRHKHNKACC
PLEGVRPSPQOTEYRNKCEFLVGVGVDGEDNTVGCRLGKYKGGTCAVAAPFDTVHIPEATKQVVKAFQEFIRSTP
YSAYDPETYTGHWKQLTVRTSRRHQAMAIAYFHPQKLSPEELAEKTSLAQHFTAGPGRASGVTCLYFVEEGQRK
TPSQEGLPLEHVAGDRCIHEDLLGLTFRISPHAFFQVNTPAAEVLYTVIQDWAQLDAGSMVLDVCCGTGTIGLAL
ARKVKRVIGVELCPEAVEDARVNAQDNELSNVEFHCGRAEDLVPTLVGRLASQHLVAILDPPRAGLHASKVILAIR
RAKNLRRLLYVSCNPRAAMGNFVDAPLFPPQPLQSPI

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FIGURE 5963

CAGTGGCTCACACAGGTCACCTGCACGCCAGGGCCTGCCCTCCCCGCCCGGCACTCCCCACTCACCAGGGCCCTC
TGCCAGCCCTACACGGCACACGCTGGTTAAGAAGGTGTCCGGCGTGGGTGGGACCACCTACGAGATCTCGGTGTG
AGGACTGACTGCCACACATCCGCCATGGTGCCACGGGGACCAGGACCCACAGCGCACCCCCCTCCCCACCAAC
TTCTCTGCCCCAGGGACCCGAGGCCACCCAGCCTGGTGTGGACCCATCGGCGGGAGAGAGTGCCACGCCTCCAC
AGCTTGCCCCAAGCGCTCTGCCTGCCCGTCCACTCATCTGCCCATGGGGAAGTCGGCTCACTGGGACAAGGGCCA
CTGGGCTGGTCTGTGTCTGGGCCTGTCCCATGGCTGGGGCAGTGAGGGGGCCAGTCAGCCTCTTTGGGGCACCC
TCTCTCAGCCAGGCTTGCCCCACTGCCATCACCCAGCACCCAGATCACCGCCAGGCCAGCCCCAATGGTCCCC
TTACGGACAGGTCCCAGAGATGGACAGAGGCACCCAGGGCCCCCACCCTTCTGACACAGCCTGTGGGCTCCC
GGACCGAGTGTCCCCGCCAGGCTACTCCTAACTAACGCGTTGCCTTTACGGACCCCGCTGGAAGCTTGTAGCT
TGGCAAGGCTGATGCTTCTGCCCTGGCCTGCTCTGGGTGGTGGTGA

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FIGURE 5964

TCTTCTCGAGGCCTCCGTTGCCTCGTCTGTGCCCCGGGCGGTGGTGCTTACCCGGCGGGGTCGCAGGGAGGTCTCG
TGGCGGCGCGTGTGGGTCTGCGTTTCCCCTCTGGGGTGCTTGGGCAGCATGAGCCCAGGGCTGTGGACAGCCTG
GTGCTCACGGGTTTGTGGCTCCACAGACTTCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAACATGC
CAGCGGCTGGACCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACACTTT
GAGGAGGACTGACCGAGGGGCTGCCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGG
TGCCATAATAAAGCGGATTCTAGACGGAG

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FIGURE 5965

CGTGAGTGCCGCTGACAGAAGTCAAGAGAATCGGCTGGGACGGGGTTGGGGCGACAACGGGCCGGGGGGGACCCG
ACAGGCCAGAGCCCCCTGGGGAGGAGCGGGGGCTGGAGGCGGAGGCTCCTCCGGATGCCCGAGAGCCGCTTGC
GACTTAACTCCCGCCTCTTTCCAGATGCCGCGTCACTGCTCCGCCGCCGCTGCTGCACACGGGACACGCGCGA
GACGCGCAACCGCGGCATCTCCTTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAA
CTGCCAGCGGCTGGACCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACA
CTTTGAGGAGGACTGCTTTGAGCTGGTGGGAATCAGTGGATATCACAGGCTAAAGGAGGGGGCAGTCCCCACCAT
ATTTGAGTCTTTCTCCAAGTTGCGCCGGACAACCAAGACCAAAGGACACAGTTACCCACCTGGCCCCCTGAAGT
CAGCCGGCTCAGACGATGCAGGAAGCGCTGCTCCGAGGGCCGAGGGCCACAACCTCCATTTCTCCACCTCCACC
TGCTGATGTCACCTGCTTTCTGTGGAAGAGGCCTCAGCACCTGCCACTTTGCCGGCCTCCCCAGCTGGGAGGCT
GGAGCCTGGCCTTAGCAGCCCCCTTTTCAGACCTACTGGGGCCCTTGGGTGCCAGGCAGATGAAGCAGGCTGCAG
CGCCAGCCTTCACCAGAGCGGCAGCCCTCCCCCTCTCGAACCAGGCCAGTCTCCCCCTCAGCGTATATGCTGCG
CCTGCCCCCACC CGCGGAGCCTACATCCAGAATGAACACAGCTACCAGGTGGGCAGCGCCTTACTCTGGAAGCG
GCGAGCCGAGGCAGCCCTTGATGCCCTTGACAAGGCCAGCGCCAGCTGCAGGCCTGCAAGCGGCGGGAGCAGCG
GCTGCGGTTGAGACTGACCAAGCTGCAGCAGGAGCGGGCAGGAGAGCGGGCACAGGCAGATGCCGCCAGAC
TCTGAAGGAGCATGTGCAGGACTTTGCCATGCAGCTGAGCAGCAGCATGGCCTGAGGGGCTGCTGGACTGACCGA
GGGGCTGCCAGCAAGACTGCAGCCTCTCCTCCCTCAGATCCCACCAGACCCACCAGGTGCCATAATAAAGCGG
ATTCTAGACGGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5966

MPRHCSAAGCCTRDTRETRNRGISFHRLPKKDNPRRGLWLANCQRLDPSGQGLWDPASEYIYFCSKHFEEDCFEL
VGISGYHRLKEGAVPTIFESFSKLRRTTKTKGHSYPPGPPEVSRLRRCRKRCSEGRGPTTPFSPPPPADVTCFPV
EEASAPATLPASPAGRLEPGLSSPFSDLLGPLGAQADEAGCSAQPSPERQPSPLEPRPVSPSAYMLRLPPPAGAY
IQNEHSYQVGSALLWKRAEAALDALKARQLQACKRREQLRLRLTKLQQERAREKRAQADARQILKEHVQDF
AMQLSSSMA

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FIGURE 5967

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCAGGGGAGCAGGACGCCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTGGAGCAGTTCCTCAACAAAAGAAGCTACA
GGAGGAACCTTGCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAAGTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGCTTTGAGCAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAACAACCTCCTTTTATAATTATTCAGTGCTTTTGTGAGTGAATAGACATCTTGCCTCCTGAAGTAG
CTTCATCACAGAGTGTATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTTCCCTT
CAAGGAGTATGTATATGTCACAAAAGAAATTGCCTTACACTGGTTCATGTTTGAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATTCTCTAATCTC
TTTGGTATCTATAACTTATTAGAAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAGTATTTTAATATGGTTTTTCAGTGCTAAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGAAACTCCTTTTCAGGTTTTTGCAAGTAGATTTTGTAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCAATTAACACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAACAACAAAAA

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FIGURE 5968

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCAGGGGAGCAGGACGCCCGCGGGCAGCATGAGTCAGCAGCGGCCGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACTTTCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAA
TCCTCAGCAAAGTGAAGAAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACCTAGATTACTGAGTAATTGTGGTTTTCCA
CATTGAAAACAACCTCCTTTTATAATTATTCAGTGCTTTTGTGTCAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCCTTTGTGGACTCTACCCCTTCCCTT
CAAGGAGTATGTATATGTCACAAAAGAAATTGCCTTACACTGGTTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATTCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTGTGGATTAAATTAAGTATTTTAAATATGGTTTTTCAGTGCTAAAAAT
TGGAGTCAGATACTTCTTGGTTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGAAAACCTCTTTCAGGTTTTTGCAAGTAGATTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCAITTAACCACTCTGTGCCTCAGTTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCCTGAGGGACTTTGTATATAATCACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAA

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FIGURE 5969A

CAAGAACGTCCTAGCCGCCAGCAGCATCTATTTCAAGTCCCTGGTCCTGCACGACAACCTCATCAACCTGGACAC
AGACATGGTCAGCTCCACAGTGTTCCAGCAGATCTTGGACTTCATCTACACAGGCAAGCTGCTGCCCAGCGACCA
GCCAGCCGAGCCAACTTCAGCACCTCCTCACTGCCGCCAGCTACCTCCAGCTGCCCCAGTTGGCAGCCCTCTG
CCGCCGCAAACCTCAAGCGAGCCGGCAAGCCCTTTGGCTCTGGGAGGGCGGGGTCCACTGGCATGGGGCGGCCCC
CCGCAGCCAGCGGCTGTCCACGGCCTCTGTCAATCAAGCTCGGTATCAGGGGCTCGTGGATGGGCGCAAGGGGGC
CCACGCCCCCAGGAGCTCCCCAAGCCAAAGGCTCAGACGATGAACTCTTCTTGGTGGCTCTAACCAGGATAG
CGTGCAAGGTCTGGGCCGGGCTGTCTGCCAGCTGGCGGGGAGGCGGGTCTGGGGGGCTGCAGCAGCAGCACC
CGGGAGCAGCGGGGGCTGCGAGCAGGAGCTGGGCTTGGACCTGTCCAAGAAAAGCCACCCTTGCCCECTGCCAC
CCCAGGTCCCCACCTCACTCCCGATGACGCAGCCAGCTGAGCGACAGCCAACATGGCTCGCCCCCTGCGCCCTC
TGCTCCTCCCGTTGCCAACAGTGCCCTCTTATCTGAGCTGGGGGGCACCCTGATGAGCCCATGGATCTGGAGGG
GGCCGAGGACAACCACCTGAGCCTGTCTGAGGGCGCTGGTGGGCAGCCTCGGAAGAGCCTCCGGCACTCCACTCG
GAAGAAGGAGTGGGGCAAGAAGGAGCCTGTGGCTGGCTCCCCCTTTGAGCGAGAGAAGCAGGGCCCAAGGGTCC
CTGCCCCGGAGAGGAGGGTGTGGGGGTCTGGGGACAGGGTTCCTAATGGCATCCTGGCTAGTGGGGCTGGCCCTAG
CGGGCCCTATGGGGAGCCCCCTACCCCTGCAAGGAGGAGGAGGAGAAGCGCAAGGATGCAAGTGAAGACAGTGC
GCAGAGCGGGAGCGAGGGGGGCGAGCGCCATGCCAGCGCCCACTACATGTACCGGCAGGAGGGCTACGAGACGGT
GTCTACGGGGACAACCTTGTATGTGTGCATTCCCTGCGCCAAGGGCTTCCCAGCTCTGAGCAGCTCAATGCGCA
CGTGAGACTCACACGAGGAAGAGCTGTTCAAGGAAGAGGGGGCCTACGAGACAGGAGTGGGGGTGCCGA
GGAGGAGGCCGAGGACCTGTACGACCCAGTGCGCCCTACACGGCTGAGCCCCGGCCCTTCAAGTGTTCGGTCTG
CGAGAAGACCTACAAGGACCCAGCGACGCTGCGGCAGCAGAGAAGACGCACTGGCTGACACGGCCCTTCCCTG
CAACATCTGTGGCAAATGTTACGCAGCGCGGCACCATGACGCGTCACATGCGGAGCCACCTGGGCCCTGAAGCC
CTTCGCTGCGATGAGTGTGGCATGCGCTTACCCGTCAGTACCGCCTCACGGAGCACATGCGTGTGCACTCGGG
CGAGAAACCTTACGAGTGCCAGCTGTGCGGGGGCAAGTTACCCAGCAGCGCAACCTCATCAGCCACCTGCGCAT
GCACACCTCCCCCTCCTAGAAGCCAAAGACCCGCGGGCGCCCTCTGCCACCTTGCTCCCCGGGAACCCATGGAAG
GAGAAGCGAGGTGATGCAGCAGCAGGGGCAAGACCCTGGGTCCAGTGGAGGCTCCGGGTGGCCCCCTCTGGCCCC
ACTGCCACACCCAGAGCTTAAATGGACAGTCCGTACCAAGCAGAGCCGAGAGGAGGAAGCCAGGGGTCCAGC
CCGTCTACCTCCCCATCCCACCCAGGCCCCAGCTCCCCGCGGGGGCCACCGCAGGGCCTGTGGGCTGGGTACG
TGGGTCTCGCTGGGACCTGGTCCCTTTGTTGAGCGCGCTTGAGAAAGGGCAGTGGGACGCTGGCCACGGCCAG
GGTGGTGTGCGGAGCAGGCCTCACCCGCTGGCCGTGTCTGTGTGTGTGACGCTGTGCTTGTGTCTGTGCGGGCG
CGTGACGCCCTGGTTCTGACGGGAACAGGTGCTGGGGGTGAGATCCCTCCCTCCTTGAGCCAGGGTGGCACTGT
TCACTGGCGCTGGGACAGTCAGGGTGACCCACCGCCTACCTCTTACATCTAAAGAGCCCTCTGGGCCTGTGTT
GCTGTTATTCCTACTGATCTGTCTCTGTTTTCTTTTTTGATTTTTGTTTTTAAACCAAAACAGACAATAGCT
TATTTTCTTCCGCCCCCTCCGGGGCTGAGCCTGGGTCTGAAGACTGAATGTAACAGGGGCCGCTGGCACTCCTG
CGGCTCCCCCGGCTCTGGCGCTGCAGGGGTGTGCGCGCCACCTCTCCAGGCCCCAGAAGCCCTTCTTGCCCAA
AGGCTTCCCTGGTCCCTGAGCCCTGCCTCGGCTGCCTCAGGGGAGAGTGCTTTTCTGTAGTTTCCAAGGAATAT
TCTTTGTTTAGAGGTAAGTTTATTAAGAGAAAAACAGTGTAAAGCTTTATGTGACTGTTTGAAGTGAAG
GTCTGGGGTTCGGGGGGTGGGGGGAGGCTAGACTCAATGCCGGGGCCGTCGGTACTCTTGTTTTCAATTTGTGTG
TGCGTGCGTGTGTGTGTGTATGTGCGTATGTGTGTGTGTATGTGTGGTGTGTGCCGTATGCATGGGCAGATGT
TTCGTTTTCCCTCCTTCCTCGCTGAACAAGGTGGAGACTTCTGACCTTTTGCTACCTCTTGAATTCATGACAACG
ATATGTTGGTGACTGGCAGTGGAAGCCCTTGACACTCTTGTTTTCTTCGCTTAGCACCTAGGAAGTCGTGTGCA
GGAGCCAGCAGGGCGCCAAGTGGCCAGTGCCGTGCAGCTACCTGTGGGTTTTCCCTTTGAGCCTTTGGCCACAT
CCACCTCGAGGGGACCCTGGCACCCCGGGCACACAAACCTCTGTGTTATAGGTGAGGGGTGTGAGGCCCCAGCCT
GGAGCCAGGCACTGGGTGCTGACAGGGGAACCATGAGGAGGGTGGCAGGTCTTTCAGCTCCCGGCCAGGGTGTG
GCGGAAGTGAAGCCCTCATCTGCCACTCCTATCCTCCATTCTGCAAGAGTTTTAAGCTTGAGAGAGCTGACCAC
AGGGCCCCCGGGGAACAGGGATGGCACTTCCCTGAGCAGTCTGCCCCCGGCCACTGTCTCGGGGGCCACCTC
TCGCCCCCTCATCTTGGTAATTAGCCAGCCTCAGATACTTCTGTGGGCCCTGAAGTGGGCTCTCAAGGTGAGACCA
AGGTTGCTGATCTCAGTCCCACTGTCTTCAGCCAGCTGAAGCTGTGGGGCTGGGCTGGCAGCCTTTATTGTATC
TTGCTTACCAATTTTTTTTCTCTCTCTTTTCAATCTATTTTAAAGTTTAGACCAAAAAAATACAGAGTCATCCCC
TACCCCCACCCCTCTAGAGACCTCCAGCTAAAAACAGAGCCTGAGTTCAGGGACCCAAGTGGTGTGCGGCTCT

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FIGURE 5969B

TTTGGGGGTGAGGGAGCTTGGGTAGATGAGGCTCCTGGCTGAGCCCTCCCTGTGGTGATCCCAGCCTAAGATGGC
CCCTCTTCCCTCCTGGTGGGAGACAGAGGACTGGACCCTGGGTCTCAGGTTCAGCAAGTCAGGCTAGGGACCTG
GGGGGAGGAGACCCATGGACTTCACCCATACTCAGTGAGGGGGCTCCTGCCGTCTGACGCCACCCCGCCCCATC
AGCACTTAAGCCACATGACACAAAGTCTGTACCGCACGGGAAATGTTACGCGCCTGGCCGTGTGCATGGCCTCC
CGGGCTGTGGGCAGCCGCATCTGTGAGGTGACTCGTGAAAGTAGGTGATTCTTTGCAGAACTTCAGGGACTGGG
AGCAGAGGCCCCCTCACTCAACGACGTTTGTGCGACATAGTATTGTATCCACCTTAGTATTGTATCGAGCCTTTTC
TGTGTTTAAATGAGAAAGCAGAACTAGTTTCTATTAAAGACTTTAAGGGTTTGTGGGGCGGGCGGGATTAA
CACAAACATTGGCTTTGTTTTCTTTTCCCTTGATTTCACATCAGGTGTGTGCGAGTGTGTGTGTGTGGAGATG
TTAAGAGCCTCACAAGGAACTGGGTATTGGAGGCCAAGGCGGCTTACAGTTCTCTGCGTTTCGTCACTTAATTC
CTGAATGTTTCAGAGAAAACAGGAATCAGAAAATAGCAGATATCATGTAGGAAAAGAGAGGATAAACAAGAAAAA
GAAAAAAATAAGCTCATACCCAAATTCACAAAGCCTATTTTAAACCAAAGCACATTTGAATGAGTATGGA
ACCTCCATGGGCTCAGAAAAAAGATGCTAATATATTTATCTCATTGTTTACATAAGCTTTTACAGTTTCAGACCT
CAGCAGCTGTAAGGCCAGTCCAGGGAACCTCCCTGCTGCTGGAACCCCTTCGAGTTGGCCCTGGAGTGGCTC
ACGGGCAGAGAAGGGTAGCCCTGGGGCTGGGGGAGGGATTGGAAGCCTCCCTGGAGTCACCTGAGCCCTCGTCCC
CATTCCAGGGCCCCCTCAAGCCCAGCTGGCACCAAAGAGCTTGGGCCGTGCTGACCAGCCCCCAAGGCCCTCT
GGCCGGACCATGCTGGTCTCTGACCAGCTAGCCTACGCGGGGATGGCCGTAGTTCTGCCCCACAGGACCCGAGTCT
GGGCTTGGGTCCCCCTGCTGCTCTGCCCCGTACCCCTTGGGGATGGGTTGATGCGAGGGTCCCACCTCAAGCCAAA
AGCCGGGACCTTTGCGCAGCTCTGTCTGACTCTGGTGGGTCCCCACTCCTGGGGCCCCCTAACCCACCCAGGCA
GCGGAAGGGGCTGACTGGGTCTGGTCTTTACCAACATAGACGGTGCAAACACTCTTAACAGTGTGTGTGTGTAT
CAATATGTTTGTGTCAGTGATGAATGTATTTATTTCTCAGACTTGGGGCGAGTGAGCGGGTGGCAGCCGGGCTCC
GCCACTGCATGCTCCCGCCGACCGAGCCCCAGCAAGGGCTCCTCCAGGATTGCAAAAAAAGGAAGAGAAAA
GATGAACCTTTAAGCAAATAAGAATCTCAGAGACTCGCAGCATAGCCATACACCTCAGCCTGTGAAATGAACGAT
CCGGACCTCACCACTTTCCCCACCTCAGGCAGCCCTGTGTGTTTACCCTTCATCACCCTCGGGGGACCCGGG
CCGCCACCCACTCCCAAAATCCGTCAGTATTCACTGGACCTCAGGCCCTGTGCAGGAGTGCGATCCGGGCTGGG
CCGCTGGGCAGGCTGACCCCTGCCCTCCTGCGGCCATCCTGAGTTGGGGTGAGGCCTGGGCAGCCGGAGGGCAG
GGCTCAGGGAGCAGGAGGCTGCATCCGTCCACCCCGAGGCGTGGGGGACAAAAGCCAAAGGTGCCAGGCCTTAGA
GCAGACAAGGGCTCTCAGCCCTGGCATGCCCCCTAAAGGGACCAAGGTCTCTCTATTTCCAGAACCCCGTTGGG
GCAGATGTTACTGAACCTGTGAATCAGACGCCAGGAGTGAGGGCTGGGGAGGGACCTAACTGGAGCCTCAGTCTG
ACATTCCACGCCGGGGTGGGGTGGGCATGAGCGGTGGGAAGTGGGGCTGCCAGGACCCCTTCTAGGATGCC
CCGGCTTCAGTCACCCACTTTAACTTTCTACCAGGACCCCTCCCCCTACCTCACCTTGCTATTTATTGCTGTA
ATTTATTGACCTCAAAAATGCTGCATAACAGACCTCACTGGGGCAGGGAGGATCCCCAGGGCTCCACCCCTCCAC
TTGGCGGGCCCCGTGGGGCCAGGTGCTGAGGGGAGCCTCTCTACCCACCCATCACTAGCTTCCCTCTGCCCTCT
CCCACCCCGGGGGGACCCAGGTGGGCACGTGCTCATTCTCGCAAATACCTCGAAGGGGAGGGGGGAGGGATG
GGGTTATAGCTGTTTTGTTTAAATTGGAAGTGGAGAGGGATCATGTTTTGTTTTATGCCCTTCCAGAGGGGGG
AGGGACACCGGGATCGCACTCCTGTACTGGCCACCGCCGCTGTCACTTGTACATTGAGTTTATGTCCTTGAGA
GTTTGTATAAATTCAGGTGAGAGCTGCAGCTACACAGCTGCCAGTGTCATAGAAAAGCAATTCACCAACGACTG
ATCTCTCCATTCAGAAGTGTGCAGTCTTAAATGTACAGCGATAAGAACTGTTATTTTATGATCTTTTCATTAAA
AGCTTGATTG

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FIGURE 5970

MVSGPLALRWCAWAGRGDMGPDMELP SHSKQLLLQLNQRTKGFLCDVIIMVENSIFRAHKNVLAASSIYFKSLV
LHDNLINLDTDMVSSTVFQQILDFIYTGKLLPSDQPAEPNFSTLLTAASYLQLPELAALCRRKLKRAGKPFSGSR
AGSTGMGRPPRSQRLSTASVIQARYQGLVDGRKGAHAPQELPQAKGSDDDELFLGGSNQDSVQGLGRAVCPAGGEA
GLGGCSSSTNGSSGGCEQELGLDLSKKSPPPLPPATPGPHLTPDDAAQLSDSQHGSPPAASAPPVANSASYSELGG
TPDEPMDLEGAEDNHLISLEAPGGQPRKSLRHSTRKKEWGKKEPVAGSPFERREAGPKGPCPGEEGEGVGDVRPN
GILASGAGPSGPYGEPPYPCKEEEENGKDASEDSAQSGSEGGSGHASAHMYRQEGYETVSYGDNLYVCIPCAKG
FPSSEQLNAHVETHTEELFIKEEGAYETGSGGAEEDLSAPSAAYTAEPRPFKCSVCEKTYKDPATLRQHEK
THWLTRPFPCNICGKMFTQRGTMTRHMRSHLGLKPFACDECGMRFTQYRLTEHMRVHSGEKPYECQLCGGKFTQ
QRNLISHLRMHTSPS

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FIGURE 5971

GGGCTGTCCGGCCCACTCCCTGGGAGCGCGAGCGGTGGACCCAGGCGGCCATGTCCCGCCCTCGCATGCGCCTG
GTGGTCACCGCGGACGACTTTGGTTACTGCCCCGCGACGCGATGAGGGTATCGTGGAGGCCTTTCTGGCCGGGGCT
GTGACCAGCGTGTCCCTGCTGGTCAACGGTGCGGCCACGGAGAGCGCGGCGGAGCTGGCCCGCAGGCACAGCATC
CCCACGGGCCTCCACGCCAACCTGTCCGAGGGCCGCCCCGTGGGTCCGGCCCGCCGTGGCGCCTCATCGCTGCTC
GGCCCGGAAGGCTTCTTCTTGGCAAGATGGGATTCCGGGAGGCGGTGGCGGCCGGAGACGTGGATTTGCCTCAG
GTGCGGAGCCGCAGCTACAGGAGGATGCTCGCGAGGACCCCCAGAGCTCCGCCCGGAGGGTACTGTGAGGCCGTT
AGGAGCTGGCGGTGGATGACTTCCGCATTCAAACACTGGAGCCATCACACGGAAGCACGAGGAGGGTATCCTCGG
CAGCTACTCCCGGTGCGTCAAGGTGTCTCTCGCTCGCCCTCTAGGTGCGGGAGGAGCTCGAGGCCCACTAAGCT
GCTTCCGGGAGCTGCTGGGCAGGGCCCCACGCACGCGGACGGGCACCAGCACGTGCACGTGCTCCAGGTGGAC
AGACGCCTTCGTGGGCCTGAGCACTTGCGGCCGGCACATGTCCGCTCACC GCGTGTCCGGGGCCCTGGCGCGGT
CCTGGAAGGTACCCTAGCGGGCCACACCCTGACAGCCGAGCTGATGGCGCACCCCGGCTACCCAGTGTGCCTCC
CACCGGCGGCTGCGGTGAAGGCCCCGACGCTTCTCTTGCTCTTGGGAGCGGCTGCATGAGCTGCGCGTCTCAC
CGCGCCACGCTGCGGGCCAGCTTGCCAGGATGGCGTGCAGCTTGCGCCCTCGACGACCTGGACTCCAAGAG
GCCAGGGGAGGAGGTCCCTGTGAGCCCACTCTGGAACCCTTCTGGAACCCTCCCTACTCTGACCCCTACAGA
CAACCAAGCACTAATCCCTTAGTACCAAGAAAGGGGAGCCAGGATTTAGTCCTGGCCCAGCCAGAGCTGGGAC
CTGGAGCACGATCTGTTGACTTCCCTGGGTAGGACACTGCCACCTCTGGGCTCAGGTCCTCATGCCTCCAAATGG
CATCTAGAGTTTGAGCAGCCTTCTTGCTGCAGGCAGGCCTAGCCTGTGGCAGCGGGCTAGGGCCCGCAGAGCAT
TTGGTGCCCTCCATGTTGCAATGCAAACACCTTCAACACTGGGGCAGTGGGAGAGATGGCTATATTAATAAAA
TAACGTGTGCTTTC

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FIGURE 5972

MSRPRMRLVVTADDFGYCPRRDEGIVEAFLAGAVTSVSLLVNGAATESAAELARRHSIPTGLHANLSEGRPVGPA
RRGASSLLGPEGFFLGKMGFREAVAAGDVDLPQVREELEAQLSCFRELLGRAPTHADGHQHVHVLPGVCQVFAEA
LQAYGVRFTRLPLERGVGGCTWLEAPARAFACAVERDARAAGPFSRHGLRWIDAFVGLSTCGRHMSAHRVSGAL
ARVLEGTLAGHTLTAELEMAHPGYPSVPPTGGCGEGPDAFSCSWERLHELRLVLTAPTTLRAQLAQDGVQLCALDDLD
SKRPGEEVPCEPTLEPFLEPSLL

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FIGURE 5973

GCTGGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGGCGGGGCTGCCTGGCCGGTGCTGTGGGGCTGCTGC
TGGCGCTGTTAGTGCCGGGCGGTGGTGCCGCCAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGC
TGCTCAATACGCACCACCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGG
TGACCGGCGTAGAGGCGTCGGACGACGCGAATAGCTACTGGCGGATCCGCGGCGGCTCGGAGGGCGGGTGCCCGT
GCGGGTCCCCGGTGCGCTGCGGGCAGGCGGTGAGGCTCACGCATGTGCTTACGGGCAAGAACCAGCACACGCACC
ACTTCCCGTCGCCGCTGTCCAACAACCAGGAGGTGAGTGCCCTTTGGGGAAGACGGCGAGGGCGACGACCTGGACC
TATGGACAGTGCGCTGCTCTGGACAGCACTGGGAGCGTGAGGCTGCTGTGCGCTTACAGCATGTGGGCACCTCTG
TGTTCCCTGTCAGTCACGGGTGAGCAGTATGGAAGCCCCATCCGTGGGCAGCATGAGGTCCACGGCATGCCCAGTG
CCAACACGCACAATACGTGGAAGGCCATGGAAGGCATCTTCATCAAGCCTAGTGTTGGAGCCCTCTGCAGGTCACG
ATGAACTCTGAGTGTGTGGATGGATGGGTGGATGGAGGGTGGCAGGTGGGGCGTCTGCAGGGCCACTCTTGGCAG
AGACTTTGGGTTTGTAGGGTCCTCAAGTGCCCTTGTGATTAAAGAATGTTGGTCTATGA

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FIGURE 5974

MWSAGRGGAAPVLLGLLLALLVPGGGAAKTGAELVTCGSVLKLLNTHHRVRLHSHDIKYGSGSGQQSVTGVEAS
DDANSYWRIRGGSEGGCPCGSPVRCGQAVRLTHVLTGKNLHTHHFSPLSNNQEVSAFGEDGEGDDLDLWTVRCS
GQHWEREAAVRLQHVGTSVFLSVTGEQYGSPIRGQHEVHCMP SANTHNTWKAMEGIFIKPSVEPSAGHDEL

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FIGURE 5975

GCTTCAGGGTACAGCTCCCCCGCAGCCAGAAGCCGGGCTGCAGCGCCTCAGCACCGCTCCGGGACACCCACCC
GCTTCCCAGGCGTGACCTGTCAACAGCAACTTCGCGGTGTGGTGAACCTCTCTGAGGAAAAACCATTTTGATTATT
ACTCTCAGACGTGCGTGGAACAAGTGACTGAGACCTAGAAATCCAAGCGTTGGAGGTCCTGAGGCCAGCCTAAG
TCGCTTCAAAATGGAACGAAGGCGTTTGTGGGGTTCCATTGAGAGCCGATACATCAGCATGAGTGTGTGGACAAG
CCCACGGAGACTTGTGGAGCTGGCAGGGCAGAGCCTGCTGAAGGATGAGGCCCTGGCCATTGCCGCCCTGGAGTT
GCTGCCCAGGGAGCTCTTCCCGCCACTCTTCATGGCAGCCTTTGACGGGAGACACAGCCAGACCCTGAAGGCAAT
GGTGACGGCCTGGCCCTTACCTGCCTCCCTCTGGGAGTGCTGATGAAGGACAACATCTTACCTGGAGACCTT
CAAAGCTGTGCTTGATGGACTTGATGTGCTCCTTGCCCAGGAGGTTGCCCCAGGAGGTGGAACTTCAAGTGCT
GGATTTACGGAAGAACTCTCATCAGGACTTCTGGACTGTATGGTCTGGAAACAGGGCCAGTCTGTACTCATTTC
AGAGCCAGAAGCAGCTCAGCCCATGACAAAGAAGCGAAAAGTAGATGGTTTGAGCACAGAGGCAGAGCAGCCCTT
CATTCCAGTAGAGGTGCTCGTAGACCTGTTCCTCAAGGAAGGTGCTGTGATGAATTGTTCTCCTACCTCATTGA
GAAAGTGAAGCGAAAGAAAAATGTACTACGCCTGTGCTGTAAGAAGCTGAAGATTTTGAATGCCCATGCAGGA
TATCAAGATGATCCTGAAAATGGTGCAGCTGGACTCTATTGAAGATTGGAGTGACTTGTACCTGGAAGCTACC
CACCTTGGCGAAATTTCTCCTTACCTGGGCCAGATGATTAATCTGCGTAGACTCCTCCTCTCCACATCCATGC
ATCTTCCTACATTTCCCGGAGAAGGAAGAGCAGTATATCGCCAGTTCACCTCTCAGTTCCTCAGTCTGCAGTG
CCTGCAGGCTCTCTATGTGGACTCTTTATTTTCTTAGAGGCCGCTGGATCAGTTGCTCAGGCACGTGATGAA
CCCTTGGAACCCCTCTCAATAACTAACTGCCGGCTTTCGGAAGGGGATGTGATGCATCTGTCCCAGAGTCCCAG
CGTCAGTCAGCTAAGTGTCTGAGTCTAAGTGGGGTCATGCTGACCGATGTAAGTCCCAGGCCCTCCAAGCTCT
GCTGGAGAGAGCCTCTGCCACCCTCCAGGACCTGGTCTTTGATGAGTGTGGGATCACGGATGATCAGCTCCTTGC
CCTCCTGCCTTCCCTGAGCCACTGCTCCAGCTTACAACCTTAAGCTTCTACGGGAATTCCATCTCCATATCTGC
CTTGCAGAGTCTCCTGCAGCACCTCATCGGGCTGAGCAATCTGACCCACGTGCTGTATCCTGTCCCCCTGGAGAG
TTATGAGGACATCCATGGTACCCTCCACCTGGAGAGGCTTGCCCTATCTGCATGCCAGGCTCAGGGAGTTGCTGTG
TGAGTTGGGGCGGGCCAGCATGGTCTGGCTTAGTGCCAACCCCTGTCTCACTGTGGGGACAGAACCTTCTATGA
CCCGGAGCCCATCCTGTGCCCCCTGTTTCATGCCTAACTAGCTGGGTGCACATATCAAATGCTTCATTCTGCATAC
TTGGACACTAAAGCCAGGATGTGCATGCATCTTGAAGCAACAAAGCAGCCACAGTTTCAGACAAATGTTCAAGTGT
GAGTGAGGAAAACATGTTCAAGTGAAGAAAAACATTGAGACAAATGTTCAAGTGAAGGAAAAAGGGGAAGTTGGG
GATAGGCAGATGTTGACTTGAGGAGTTAATGTGATCTTTGGGGAGATACATCTTATAGAGTTAGAAATAGAATCT
GAATTTCTAAAGGGAGATTCTGGCTTGGGAAGTACATGTAGGAGTTAATCCCTGTGTAGACTGTTGTAAAGAAAC
TGTTGAAAATAAAGAGAAGCAATGTGAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 5976

MERRRLWGSIQSRYISMSVWTSPPRLVELAGQSLLKDEALAIAALELLPRELFPPLFMAAFDGRHSQTLKAMVQA
WPFTCLPLGVLKMGQHLHLETFKAVLDGLDVLLAQEVRRRWKLQVLDLRKNSHQDFWTVWSGNRASLYSFPEPE
AAQPMTKKRKVDGLSTEAEQPFIPVEVLVDLFLKEGACDELFSYLIEKVRRKKNVLRCCCKKLKIFAMPMDIKM
ILKMVQLDSIEDLEVCTWKLPTLAKFSPYLGQMINLRRLLSHIHASSYISPEKEEQYIAQFTSQFLSLQCIQA
LYVDSLFFLRGRDQLLRHVMNPLETSLITNCRLESGDVMHLSQSPSVSLSVLSLSGVMLTDVSPEPLQALLER
ASATLQDLVFDECGITDDQLLALLPSLSHCSQLTTLSFYGNSSISALQSLQHLIGLSNLTHVLYPVPLESYED
IHGTLHLERLAYLHARLRELLCELGRPSMVWLSANPCPHCGDRTFYDPEPILCPCFMPN

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FIGURE 5977

AACGCCAGCGCCTGCGCACTGAGGGCGGCCTGGTTCGTCTGCGGCGGCGGCGGCGGCTGAGGAGCCCGGCTGA
GGCGCCAGTACCCGGCCCGGTCCGCATTTTCGCCTTCCGGCTTCGGTTTCCCTCGGCCAGCACGCCCCGGCCCCG
CCCCAGCCCTCCTGATCCCTCGCAGCCCGGCTCCGGCCGCCCGCCTCTGCGCCGCAATGATGATGATGGCGCTG
AGCAAGACCTTCGGGCAGAAGCCCGTGAAGTTCCAGCTGGAGGACGACGGCGAGTTCTACATGATCGGCTCCGAG
GTGGGAAACTACCTCCGTATGTTCCGAGGTTCTCTGTACAAGAGATACCCCTCACTCTGGAGGCGACTAGCCACT
GTGGAAGAGAGGAAGAAAATAGTTGCATCGTCACATGATCACGGATACACGACTCTAGCCACCAGTGTGACCCTG
TTAAAAGCCTCGGAAGTGGAGAGATTCTGGATGGCAACGATGAGAAGTACAAGGCTGTGTCCATCAGCACAGAG
CCCCCACCTACCTCAGGGAACAGAAGGCCAAGAGGAACAGCCAGTGGGTACCCACCCTGCCAACAGCTCCCAC
CACTTAGATGCCGTGCCATGCTCCACAACCATCAACAGGAACCGCATGGGCCGAGACAAGAAGAGAACCTTCCCC
CTTTGGTGTGGATGCATCGCTGCACTCACCCCTCCGTGCTGATTCCGCCTTAGTTCTCCACTTTGATGACCATGAC
CCAGCTGTGATCCATGAGAACGCATCTCAGCCCGAGGTGCTGGTCCCCATCCGGCTGGACATGGAGATCGATGGG
CAGAAGCTGCGAGACGCCCTTACCTGGAACATGAATGAGAAGTTGATGACGCCTGAGATGTTTTAGAAAATCCTC
TGTGACGATCTGGATTTGAACCCGCTGACGTTTGTGCCAGCCATCGCCTCTGCCATCAGACAGCAGATCGAGTCC
TACCCACGGACAGCATCCTGGAGGACCAGTCAGACCAGCGGTCATCATCAAGCTGAACATCCATGTGGGAAAC
ATTTCCCTGGTGGACCAAGTTTGAGTGGGACATGTCAGAGAAGGAGAACTCACCAGAGAAGTTTGCCTGAAGCTG
TGCTCGGAGCTGGGGTTGGGCGGGGAGTTTGTACCACCATCGCATACAGCATCCGGGGACAGCTGAGCTGGCAT
CAGAAGACCTACGCCTTACGCGAGAACCCTCTGCCCACAGTGGAGATTGCCATCCGGAACACGGGCGATGCGGAC
CAGTGGTGGCCACTGCTGGAGACTCTGACAGACGCTGAGATGGAGAAGAAGATCCGCGACCAGGACAGGAACAG
AGGCGGATGAGGCGTCTTGCCAACACGGCCCCGGCCTGGTAACAGCCCATCAGCACACGGCTCCACGGAGCAT
CTCAGAAGATTGGGCCGCCCTCTCTCCATCTTCTGGCAAGGACAGAGGCGAGGGGACAGCCAGCGCCATCCTGA
GGATCGGGTGGGGGTGGAGTGGGGGCTTCCAGGTGGCCCTTCCCGGCACACATTCCATTGTGAGCCCCAGTCC
TGCCCCCACCCACCCCTCCCTACCCCTCCCCAGTCTCTGGGGTCAGGAAGAAACCTTATTTTAGGTTGTGTTTT
GTTTTGTATAGGAGCCCCAGGCAGGGCTAGTAACAGTTTTTAAATAAAAGGCAACAGGTCATGTTCAATTTCTT
C

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FIGURE 5978

MMMALSKTFGQKPVKFQLEDDGEFYMGSEVGNLYLRMFRGSLYKRYPSLWRRLATVEERKKIVASSHDHGYTTL
ATSVTLLKASEVEEILDGNDEKYKAVSISTEPPTYLREQKAKRNSQWVPTLPNSSHHLDVPCSTTINRNRMG
KKRTFPLWCGCIAALTLRADSALVLHFDDHDPVIAHENASQPEVLVPIRLDMEIDGQKLDAFTWNMNEKLMTPE
MFSEILCDDLDLNPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVIIKLNIHVGNISLVDQFEWDMSEKENSPE
KFALKLCSELGLGGEFVTIIAYSIRGQLSWHQTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAEMKKIR
DQDRNTRMRRLANTAPAW

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FIGURE 5979

ACCACAGTGGTGTCCGAGAAGTCAGGCACGTAGCTCAGCGGCGGCCGCGCGCGTGCCTCTGCGCGG
GTCTCCTGGTCCTTCTGCCATCATGCCGATGTTTCATCGTAAACACCAACGTGCCCCGCGCCTCCGTGCCGGACGG
GTTCTCTCCGAGCTCAGCCAGCAGCTGGCGCAGGCCACCGGCAAGCCCCCAGTACATCGCGGTGCACGTGGT
CCCGGACCAGCTCATGGCCTTCGGCGGCTCCAGCGAGCCGTGCGCGCTCTGCAGCCTGCACAGCATCGGCAAGAT
CGGCGGCGCGCAGAACCGCTCCTACAGCAAGCTGCTGTGCGGCCTGCTGGCCGAGCGCCTGCGCATCAGCCCGGA
CAGGGTCTACATCAACTATTACGACATGAACGCGGCCAATGTGGGCTGGAACAACCTCCACCTTCGCCTAAGAGCC
GCAGGGACCCACGCTGTCTGCGCTGGCTCCACCCGGGAACCGCCGCACGCTGTGTTCTAGGCCCGCCACCCCA
ACCTTCTGGTGGGGAGAAATAAACGGTTTAGAGACT

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FIGURE 5980

MPMFIVNTNVPRASVPDGFLSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNR
YSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA

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FIGURE 5981A

TTGGGCGAGAGGGTGGGGCCACTCAACGCTGAGGCGGCGAATGGCCGGAGCAGACTTAAATCAAGAGGCTGGGGA
CCTCTAAGATCAAAGTTTGGGGCGGGGCTTAAGGAGGGGGCGGGGCTCCAGATTTCGAGACCTGGAAGGGCTGGG
GCGGCGCTTGGGGCGGGCCAGCCGCCGCTCCCGTTCTCTCCTCCGCAGCGGCGGGCTGGCGGAGAAGGAACTC
GACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTGTAGCCCGCTCTGGGCGGGGGCCATGGGCGCC
CCGCGCGCGCCGGGTATGAGGACGGAGGCGGAGGCAGCGGGGCGGGCTCGAGCCCGGGGACTTTGTGCAACT
GCCTGTGCCCCTCATCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGTGCAGGTACC
TGGGCCAGCTGGACGACAGTGAGTTTGGAGAGCCCTGCAGAAGCTGCAGCTGACCAGGAGCATCTGGACCATCG
ACCTGGCCTACCTGATGCACCACTTTGGCGTGAGGCACCGCTTCTGTACCCAGACCCCTGGGTGTGACAAGGGCT
ACAAGAACCAGTCTTCTACAGGAAGCACTTTGACACAGAAGAGACCCGGGTGAATCAGCTGTTTGCACAAGCAA
AGGCCTGCAAGGTGCTGGTGGAGAAATGCACAGTGAGTGTGAAGGACATCCAGGCGCACCTGGCTCAGGGCCATG
TGGCCATCGTGTGGTGAACCTCGGGGTGCTGCACTGTGACCTGTGCTCCAGCCCTGTCAAGTACTGCTGCTTCA
CCCCAGTGGCCACCACTGCTTCTGCCGCACTCCTGACTACCAGGGCCACTTCATCGTGTGCGTGGCTACAACC
GGGCCACTGGCTGCATCTTCTACAACAACCCAGCCTATGCCAGCCAGGAATGTGCAGCACCAGCATCAGTAACT
TTGAGGAGGCCAGAACCACTATGGCACAGATGAGGACATCCTCTTTGTCTACTTGGACAGCTGACAGCAGGAGC
CTGGTGGCCTTAGGCCCTCGGACCCATCCCCACCCAGCGGGGCGGCTCAGGATGCCCTGGCCAGGCTTGGG
GCTGCTGGGGTTGGAATGTGGAAGTGCAGCCTCAGCCCATCTGGCAGAGTCCCAGGAACCTCGGAGACTGGCACAG
CTGCTTTGTCTGCCAGTGCCGTGTGTTGTCTGTCACTACCCCAAGCACCTGCTGGCTGCTGGAAGCATACCCC
AAGACCCCAAGCCTTGACTCCAGCTGCGCCACAGGAAGTCCAGTCCCGACAGTGCCCTTGTTGCCTTTGAGCCA
GATCCATGGCAATGGTCTCCCCACAGACCGCAGGACTGAGCCTGGAGAGAGAAGTTGCTTGACGGATGCCACTTG
TCAGGACAGTATGTGAGTGTCTGGAGACAGCATAGCTGACCCCAATCCCCCAGGGCTGAGGACCCCTCCAGGCC
CTCTCTCCTGGAAGTGTGCATATGCCCTGTGCCAGTGGTTGATGATACCACCACCACCTGCCATCCCATGGG
CCCAAGTTTCTGTGGCTCATTACAGGGCATCTGACCCCTGCCACCCAGCATAGACACACCTCACAGCTGCCCTGC
CATGCAGAGCCCTGGCCGTGGAGACTCTTAAAGCCCCACAGCCCTCCAGGTCTCCAGCTCTGTGAGATGGAG
GGCTCTCGGGCCTAGATCCCACTGGTAGGCCTCGTGGCTGGCAGCAGTGCTCTGGGAATAAACAGCTGCCCTAGC
CCCAGAGGGATCCCTGCACCCAGGAGGCCTCCTGACACCAGCCAAAATCCTGACAGCAGGGTCTGCCCTCTTGAG
TGTGGGGAGCCCCCTAGTCTTTAAGGTTGGCTGCTAAGGCCCTGTGCTCCAAAGCAACGGGCTGGGGCAGCCTGCA
GCTGCCACCCCAACCTGGTCTTACACCAGATTGCACAGGATACTGGGTCTTGTCTATCTTGATGGAGAAGAGGG
GTTCTGCCCAGGATCTTACAACACAGCAAGTAGCATAGAGCTCTTTCCTTCTCTTTTTTGGGGAGGTTGGGGT
CAGGGGTGTGTTCTTTGAGATTTAAGTTTTTCATTTTTGGGGGTAAATCACCTTCAAGTAAACAGTAATAGCAAG
AGTGAAGGTACTTTGGAACCACTAACACCTCTGCACAGGGCAGTTAGCCAGCTCAAGTTCTTTTTCAGAGAAAGG
GACTTGGCCAGTGGTTTAAAGTACCTGCCCTTACCTCTCAGACGAGGCAGCTGACGAGGCAGCTGGCCAGTCT
TGGGAGTCTGCTCAGGACAGTGGTGGAGCTGGGTCTTGAACCCAGTCTGCACCTAAAAAACTAAAGGAAATGGA
TTTTTTTTTTTTTTTTTGGAGACGGAGACTCACTCTGTTGCCAGACTGGAGTGCAGTGGCAGCATCTGGCTTAC
TACAACCTCCGCCTCCIGGGTTCAAGCGATCCTCCTGCCTCAGCCCCCACTAGCTGGGACTACAGGCACATGCC
ACCATGCCCGGCTAATTTTTTTGTATTTTTTAGTAGAGACCAGGCTTCGCCATGTTGGCCAGGCTGGTCTCGAACC
CCTGAGCTCAGGTGATCCACCTGCCTCGGCCCTCCAAAGTGGGAAATGGGTCAATTTCAAAGGGGCAACAGTGAT
ACCATCCCTGCACTCCTGGGTCTGCTCTTCCAATGCCCAAGGCATGGCATGGTGGCAGCTGTGCCCCGCCCCAT
TGCTTTGGAGCACAGATGACTCTGGGGGCAGAGGTGGGCTCTGTTTAGGAGGGCAGTGAGACCACCCAGCCAAAT
TGCTTCTCAACCCTAGACAAAGCCTTTGGCCAAGAGGGAGGTGCTGTAGTTGGGCAGCCCTTCTGGGTTTCAGA
GACCGGTGTTGGCTCTAGACTGGTCTCATCTCCATTGCCTTAATGCCAGGTGGCCAGGAGTACCATGCACAGC
AGCTGTGGGGTGTGGGCATCTCAGGTGGTGTCTGGTAAATTTGTTAGAATAGCTGTATGAAGGAAACAGTG
GAGGAAATGAAGTTTTTCAAGATGGTGGGATGTGATTTAGACAGTGACATGCTGTTAGGGCTGTCTAGGGAGT
GGCCTTCAATGGAGGGTGGTAAACAGCACCTCAGTCCAGCCAAAATGTTTAGAAACACTAGTCTCTGGTCCCAGAG
GATGGCTTCTCAGGGCATGCCACAAGTTAAAGGTACCTTCTGAAAGATGAATGAGAAAGCTGCCCATTTCTCAA
GACTCATCTGCCTAGGGAGGGTACAGAGGCAGGATGTAAGACACACTGTGTTGCATTCTTGACAAGTCATGAA
AATGGAGCCAGAGAGCCTGGACATCAGGGACTTTTGCCACAGCACATGACACCGACAGCTGCCAGCCTGTTCA
CATGCTGGGGACAGCACAGCCTGAAGCCATGTGGGACAGTTGGGCTTTGTTCACTTAGCCACGGGGATGAA
AGGGATCTTTTGCAATTGCAGAGATTTATATATATTTTGTGTTGTAATGAGCCATTCTCAATAAACATTATCTCA

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FIGURE 5981B

CTGC

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FIGURE 5982

MHHFGVRHRFCTQTLGVDKGYKNQSFYRKHFDTEETRVNQLFAQAKACKVLVEKCTVSVKDIQAHLAQGHVAIVL
VNSGVLHCDLCSSPVKYCCFTPSGHHCFCRTPDYQGHFIVLRGINRATGCIFYNNPAYADPGMCSTSISNFEEAR
TSYGTDEDILFVYLD

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FIGURE 5983

TCTTGACTCAGCCTTCGCCGTAGCATCTTTCGCAGCGGACCGAAGAGAAGAAAAAGTAGGCCAGAGCCGAACCTCT
CTTCCTGCCAAGATGCTCTATTGGTGTGCCGATTAAAGTACTGCATGAGGCCGAGGGCCACATTGTGACATGTGAG
ACGAACACCGGTGAGGTATATCGGGGGAAGCTCATTGAAGCAGAGGACAACATGAACTGCCAGATGTCCAACATC
ACAGTCACATACAGAGATGGCCGAGTGGCACAGCTGGAGCAGGTATACATCCGTGGCAGCAAAATCCGCTTTCTG
ATTTTGCTGACATGCTGAAGAACGCACCCATGTTAAAGAGCATGAAAAATAAAAAACCAAGGCTCAGGGGCTGGC
CGAGGAAAAGCTGCCATTCTCAAGGCCCAAGTGGCCGCAAGAGGAAGAGGACGTGGAATGGGACGTGGAAACATC
TTTCAAAAGCGAAGATAAATTTTCTAAGTTGAACAGAACTTTGTCCTTTTTTCTTTTCAGGTTATCTGAGTTCATTG
GAGTGGGTGCTTGTGCATATATCTAGGTATCTTTTGCCATCTTCTCTTTAGATCAGGGGAAATGTTTAAGCTAA
ATAAATCTGGGGGGTTTTTTGTTCTG

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FIGURE 5984

MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLEAEDNMNCQMSNITVTYRDGRVAQLEQVYIRGSKIRFLILPD
MLKNAPMLKSMKNKNQSGAGRGKAAILKAQVAARGRGRGMGRGNIFQKRR

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FIGURE 5985

CATTGCAGTACACTGAGCTCCACAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTGTGCC
TCGCTGAGGAAAAATAACTAAACATGAGCAAAGGAGATCCTAAGAAGCTGAGAGGCAAAATGTCATCACATGCAT
TTTTTGGGCAAACTTGTCTGGGAGGCGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACCTCTCAGAGTTTTCTA
AGAAGTGCCCCATTACGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGAT
CCGAATGCACCCAAGAGGACTCCTTCGGCCTTCTTCCTGTTCTGCTCTGCGTATCGCCCCAAAAATCAAAGGAGAA
CATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCCGCAGATGACAAG
CAGCCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGA
AAGCCTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAG
GAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGATGATGAATAAGTTGGTTCTAGC
GCAGTTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAACCTCACTCCTTTTTAAAGAAAAAAATTG
AAATGTAAGGCTGTGTAAGATTGTGTTTTAACTGTACAGTGCTTTTTTTGTATAGTTAACACACTACCGAATG
TGTCTTTAGATAGCCCTGTCCTGATGGTATTTCAATAGCCGCTAACCTTGCCTGGTACAGTATGGGGGCTGTAA
ATTGGCATGGAATTTAAAGCGGGTTCTTGTGGTGACAGCACAAATTAGTTATATATGGGGATGATAGTTTTT
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTATTCTGTAACTGAATACCACTCTGTAATTGCAA
AAAGAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTAG

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FIGURE 5986

ATGGGTGCATACAAGTACATCCTGGAGCTATGGAGAAAGAAGCAGTCTGATGTCAIGCGCTTTCTTCTGAGGGTC
CGCTGCTGGCAGTACCGCCAGCTATCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAAGTGCACCGA
CTGGGCTACAAACAAGGCCAAGCAAGTGACAGTGAGTCGTGTGGACCTGGTAAAATCACCAACTTCTCTGATTCT
CCTTATCTTGAAAACAGGGATGATAATGCTCCCCCTACCCACAGATGCTGTGACGTTCCAAGCAGACATCTAA

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FIGURE 5987

GGCGCTGGGCGGCTGCGGCGCGGGTGCGCGGTGCGTAGTCTGGAGCTATGGTGGTGGTGGCAGCCGCGCCGAAC
CCGCGCGACGGGACCCCTAAAGTTCTGCTTCTGTGCGGGCAGCCCGCCTCCGCGCGCGGAGCCCCGGCCGCCAG
GCCCTGCCGCTCATGGTGCCAGCCAGAGAGGGGCCAGCCCGGAGGCAGCGAGCGGGGGGCTGCCCCAGGCGCGC
AAGCGACAGCGCCTCACGCACCTGAGCCCCGAGGAGAAGGCGCTGAGGAGGAACTGAAAAACAGAGTAGCAGCT
CAGACTGCCAGAGATCGAAAGAAGGCTCGAATGAGTGAGCTGGAACAGCAAGTGGTAGATTAGAAGAAGAGAAC
CAAAAACTTTTGCTAGAAAATCAGCTTTTACGAGAGAAAACATCATGGCCTTGATAGTTGAGAACCAGGAGTTAAGA
CAGCGCTTGGGGATGGATGCCCTGGTTGCTGAAGAGGAGGCGGAAGCCAAGGGGAATGAAGTGAGGCCAGTGGCC
GGGTCTGCTGAGTCCGAGCACTCAGACTACGTGCACCTCTGCAGCAGGTGCAGGCCAGTTGTACCCCTCCAG
AACATCTCCCCATGGATTCTGGCGGTATTGACTCTTCAGATTAGAGTCTGATATCCTGTTGGGCATTCTGGACA
ACTTGGACCCAGTCATGTTCTTCAAATGCCCTTCCCAGAGCCTGCCAGCCTGGAGGAGCTCCCAGAGGTCTACC
CAGAAGGACCCAGTTCCTTACCAGCCTCCCTTTCTCTGTCAGTGGGGACGTCATCAGCCAAGCTGGAAGCCATTA
ATGAACTAATTCGTTTTGACCACATATATACCAAGCCCTAGTCTTAGAGATACCCTCTGAGACAGAGAGCCAAG
CTAATGTGGTAGTGAAAATCGAGGAAGCACCTCTCAGCCCTCAGAGAATGATCACCTGAATTCATTGTCTCAG
TGAAGGAAGAACCCTGTAGAAGATGACCTCGTTCCGGAGCTGGGTATCTCAAATCTGCTTTCATCCAGCCACTGCC
CAAAGCCATCTTCCTGCCTACTGGATGCTTACAGTGACTGTGGATACGGGGGTTCCCTTTCCCCATTAGTGACA
TGTCTCTCTGCTGGTGTAACCATTCCTGGGAGGACACTTTTGCCAATGAACCTTTCCCCAGCTGATTAGTG
TCTAAGGAATGATCCAATACTGTTGCCCTTTTCTTGACTATTACACTGCCTGGAGGATAGCAGAGAAGCCTGTC
TGTACTTCATTCAAAAAGCCAAAATAGAGAGTATACAGTCCTAGAGAATTCCTCTATTTGTTTCAGATCTCATAGA
TGACCCCCAGGTATTGTCTTTTGACATCCAGCAGTCCAAGGTATTGAGACATATTACTGGAAGTAAGAAATATTA
CTATAATTGAGAACTACAGCTTTTAAAGATTGTACTTTTATCTTAAAGGGTGGTAGTTTTCCCTAAAATACTTAT
TATGTAAGGGTCATTAGACAAATGTCTTGAAGTAGACATGGAATTTATGAATGGTTCTTTATCATTTCTCTTCCC
CCTTTTGGCATCCTGGCTTGCTCCAGTTTTAGGTCTTTAGTTTGCTTCTGTAAGCAACGGGAACACCTGCTG
AGGGGGCTCTTTCCCTCATGTATACTTCAAGTAAGATCAAGAATCTTTTGTAAGATTATAGAAATTTACTATGTA
AATGCTTGATGGAATTTTTCTGCTAGTGTAGCTTCTGAAAGGTGCTTTCTCCATTTATTTAAACTACCCATG
CAATTAAGGTACAATGCAAAAAAAAAAAAAAAAAA

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FIGURE 5988

MVVAAAPNPADGTPKVLLLSGQPASAAGAPAGQALPLMVP AQRGASPEAASGGLPQARKRQRLTHLSPEEKALR
RKLKNRVAAQTARDRKKARMSELEQQVVDLEENQKLLLENQLLREKTHGLVVENQELRQRLGMDALVAEEEEAEA
KGNEVRPVAGSAESAALRLRAPLQQVQAQLSPLQNI SPWILAVLTLQIQSLISCWAFWTTWTQSCSSNALPQSLP
AWRSSQRSTQKDPVPYQPPFLCQWGRHQPSWKPLMN

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FIGURE 5989

AGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCGTCCACGGATTACAGTACCTATAGCCA
AGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCCAGCCCCTCAAGGATATGCACAGACCACCCAGGCATA
TGGGCAACAAAGCTATGGAACCTATGGACAGCCCCTGATGTGCTAGCTATACCCAGGCTCAGACCCTGCAACCTA
TGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCCTGTTTATACTACTCCAACTGCCCCCAGGCATA
CAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACCCTGCTACAGTCACCACCACCCAGGCCTC
CTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACC
TACAAGACCGCAGGATGGAACAAGCCCCTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCC
CAGCCTAGGATATGGACAGAGTAACCTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGC
ACCTCCATCCTACCTCCTACAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCA
GAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCAGCC
TCCCCTAGTTACCCACCCCAAACCTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACAGAGCAGCAGCTA
CGGGCAGCAGAGTTTATTCCGACAGGACCACCCCACTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTC
CGGACCAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACCGGGGCAGGGGAAGAGGGGGATTGATCGTGGAGG
CATGAGCAGAGGTGGGCGGGGAGGAGACGCGGTGGAATGGGCAGCGCTGGAGAGCGAGGTGGCTTCAATAAGCC
TGGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGATGAAGACTCTGACAACAG
TGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTTCTTTAAGCAGTGTGGGGT
TGTTAAGATGAACAAGAGAAGTGGGCAACCCATGATCCACATCTACCTGGACAAGGAAACAGGAAAGCCCAAAGG
CGATGCCACAGTGTCTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTTTGATGGGAAAGATTTTCA
AGGGAGCAAACCTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCGGGGTGGTCTGCCACCCCG
TGAGGGCAGAGGCATGCCACCACCCTCCGTGGAGGTCCAGGAGGCCAGGAGGTCTGGGGGACCCATGGGTCTG
CATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTTCCTGAGGGAACCCCTCTGG
AGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCCAATCCGGGTGTGGAAACCAGAAGTCTGCCTG
GAGAACAGAGTGCAACCAAGTGTAAAGGCCCAAAGCCTGAAGGCTTCTCCCGCCACCCTTTCCGCCCCGGGTGG
TGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGATCGTGGTGGTCCCGGTGG
AATGTTAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGGCATGGACCAGGTGGCTTTGG
TGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGGAGGAAGAAGAGGAGGACG
TGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCCCTACTAGATGCAGAGACC
CCGCAGAGCTGCATTGACTACCAGATTTATTTTTTAAACCAGAAAATGTTTTAAATTTATAATTCCATATTTATA
ATGTTGGCCACAACATTATGATTATTCCTTGCTGTACTTTAGTATTTTTACCATTTGTGAAGAAACATTAAAA
CAAGTTAAATGGTAGTGTGCGGAGTTTTTTTTCTTCTCTTTTAAAAATGGTTGTTTAAGACTTTAACAATGG
GAACCCCTTGTGAGCATGCTCAGTATCATTGTGGAGAACCAAGAGGGCCTCTTAAGTGAACAATGTTTCATGGTT
GTGATGTTTTTTTTTTTTTTTTTAAATAAAATTCAAATGTTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5990

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTTQAYGQOSYGTYGQPTDVSYTQAQTTATYGQTAYATSYGQPPT
GYTTPTAPQAYSQPFVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPQDGNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVITAPPSYPPTSYSSTQPTSYPDQSSYSQNTYGPSSYGQSS
YGQSSSYGQQPPTSYPPTGSGYSQAPSQYSQQSSSYGQSSFRQDHPSSMGVYGQESGGFSGPGENRSMSPDNR
GRGRGGFDRGGMSRGGRRGGGRGGMGSAGERGGFNKPGGPMDEGPDLLGPPVDPDESDNSAIYVQGLNDSVTLD
DLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVS LARKKPP
MNSMRGGLPPREGRMPPPLRGGP GGP GGP GGP MGRMGGRGGDRGGFP PRGPRGSRGNPSGGGNVQHRAGDWQCP
NPGCGNQNFARTECNQCKAPKEGFLPPFPFPFGGDRGRGGPGGMRGGRGGLMDRGGPGGMFRGGRRGGDRGGFR
GGRGMDRGGFGGGRGGPGGPPGFLMEQMGGRRGGRGPGKMDKGEHRQERRDRPY

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FIGURE 5991

GGACGCATAGAGCTGCGGCTCGGGCGGGCGCCTCCCTGCGGCGGGCCCGCCCGGCTCCGGCCCCCGCTGGGGCAAT
GCTCCCCGGGGCCCGGGGATGAGCCAGCGATCCTGAACTGTGTTCTGCCCACAGTGACTCGGCCGGTCCGGGCA
TGGCAGACCCAGTGGCGGGCATCGCGGGTTCGGCGGCCAAGAGCGTGCGGCCATTTGCTCCAGTGAGGCCTACG
TGGAGGCCATGAAGGAGGACCTGGCCGAGTGGCTCAATGCCTTGACGGCTGGGTCTCCCGGTGGTGGCGATG
GCTTCTGACAGGGCTGGCCACGGGCACGACCCTGTGCCAACATGCCAACGCCGTGACCGAGGCTGCCCCGTGCAT
TGGCAGCCGCCCCCGGGCCGAGGTGTGGCCTTCCAGGCGCACAGTGTAGTGCCTGGCTCCTTCATGGCGCGCG
ACAACTGTGGCCACCTTCATCGGCTGGTCCGCGTGGAGCTGGGTGTGCCGAGGTGCTCATGTTGAGACTGAGG
ACCTGGTGCTGCGCAAGAACGAGAAGAGCGTGGTGCTGTGCCTGCTGGAGGTGGCGCGGCGTGGGGCACGCCTGG
GCCTGCTGGCCCCACGCCTCGTGAGTTGAGCAGGAGATTGAGCGGGAGCTGCGTGCTGCACCCCCAGCCCCCA
ACGCCCTGCGCTGGGGAGGACACCACTGAAACCGCCCCCGACCGAGGACTCCTGCCCCGCGCCCCCGCATGA
CACCAGCGACCTGCGCAACCTCGACGAGCTGGTGAGGGAGATTCTGGGCCGCTGCACCTGCCCTGACCACTTTC
CCATGATCAAGGTCTCAGAGGGGAAGTACCGTGTGGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGTGAGGA
GCCACGTGATGGTGGAGTGGGTGGTGGCTGGGACACGTGGAGCATTACCTGGACAAGCACGACCCGTGCCGCT
GCTCTCCACTGCTCATGCCCCACCCAGCCGAGGGTCTGCACCTTTTCTCCACAGAGGGTGTGCCCCACCACCA
GTCCCCGCGCTGCTAGCCCAGTCCCTGGGAGTGAGCGCCGGGGCTCCCGGCTGAGATGACTCCCGTTAGCTTAC
GAAGCACAAGGAGGGGGCCGAGACCCACCCAGGCCCGGGATCAGCTGCCCCCATCCCCGCTCCCGCCGCT
ACTCCGGGACAGTGACTCCTCAGCCTCCTCCGCCAGAGCGGCCCTTGGTACCCGAGTGATGACACAGGCA
CTGGCCCCCGGAGGGAGCGACCCAGCCGCGGCTGACCACAGGCACCCCGGCTCTCCGAGACGGCTCCTGCCC
TGCGCAGCCAGTCCCGAGACCGGCTGGATCGCGGCCGGCCCCGGGGGGCCCCAGGAGGCAGGGGAGCCAGCTGT
CGGTCCCCAGCCCTGCCCGGCGGGCCCGGAGCCAGAGCCGCGAGGAGCAGGCTGTGCTGCTTGTGCGCAGGGATC
GAGACGGGCAGCACTCATGGGTGCCAAGGGGCAGGGGCAGTGGGGGCTCGGGCAGGAGCACCCCCAGACTCCCC
GTGCCCGCAGCCCTGCAGCACCCCGGCTTTCCCGGGTCTCCAGCCCCAGTCCAGAGTTGGGCACCACACCGGCCA
GCATCTTCCGCACACCCCTGCAGCTCGACCCGAGCAGGAGCAGCAGCTGTTCCGGCGCCTGGAAGAGGAGTTCC
TGGCCAATGCCCCGGGCCCTTGAGGCTGTTGCTAGCGTGACCCCCACTGGACCAGCCCTGACCCAGCTCGGGCCC
CCGACCTCCAGCTCCTGACTCTGCCTATTGTTCTCCTCAGTTTCTCCTCTTCGTCCCTCAGCGTCTGGGTGGCA
AATGTGCCAACCTGGGGACTCTGGCCGGACGGCCAATGGGCTGCCTGGGCCCCGAAGCCAAGCCCTTTCCAGCT
CCTCCGATGAAGGCAGCCCTGCCCTGGCATGGGGGGGCCACTAGATGCACCTGGGAGCCCCCTGGCTTGCACTG
AACCCTCGAGGACCTGGGCACGGGTGCGATGGACACACAGCCAGACCGTAAACCCTCACGTATCCCCACGCCTC
GGGGCCCCCGCCGCCCTCCGGACCCGAGAGCTGGGGACATGGCATGCCCTGCACTCAGTACCCCCGAGGGCTG
AGCCAGATTCTGGATGTGATGGACCAGCTCAGCTGTCCCCAGACCCATCCCTTCTCCTTTTCTTTGTGGCCT
TAACCTTTCTGCATCAGGGAGCCCCCTCTGCCTCTTGAGTACCAGACCTCATGGGACCAGACCCCTTGGGACCAC
ATGGCACAATGGGACCTCTGTTGTACATTCCGGTTGGGGGATGAGCGTTGCTATTTAATTACTAATATTATTGAA
TGCTTAGAGGAGGCCGGGCGAGCCCGGTGTTCTGAAGACCTGTGGCCAGCAGAGCCTCTGACAGTAAAGTTTT
GCTCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5992

MADPVAGIAGSAAKSVRPFRSSEAYVEAMKEDLAEWLNALYGLGLPGGGDGFLTGLATGTTLCQHANA VTEAARA
LAAARPARGVAFQAHSVVPGSFMARDNVATFIGWCRVELGVPEVLMFETEDLVLRKNEKSVVLCLEVARRGARL
GLLAPRLVQFEQEIERELRAAPPAPNAPAAGEDTTETAPAGTTPARGPRMTPSDLRNLDELVREILGRCTCPDQF
PMIKVSEGKYRVGDSLLIFVRVLRSHVMVRVGGGWDILEHYLDKHDPCCRSSTAHRPPQPRVCTFSPQRVSPIT
SPRPASPVPGSERRGSRPEMTPVSLRSTKEGPETPPRPDQLPPHPRSRRYSGDSOSSASSAQSGPLGTRSDDTG
TGPRRERPSRRLTTGTPASPRRPPALRSQSRDLDRGRPRGAPGGRGAQLSVPSPARRARSQSREEQAVLLVRRD
RDGQHSWVPRGRSGGSGRSTPQTTPRARSAPAPRLSRVSSPSPELGTTASIFRTPLQLDPQQEQQLFRLEEEF
LANARALEAVASVTP TGPAPD PARAPDPPAPDSAYCSSSSSSSSSVLGGKCGQPGDSGRTANGLPGPRSQUALSS
SSDEGSPCPGMGGPLDAPGSPLACTEPSRTWARGRMDTQPD RKPSRIPTPRGPRRPSGPAELGTWHALHSVTPRA
EPDSWM

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FIGURE 5993A

ACCACTTGAAGAGAGGTTTCCTAATACTAGACAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTG
AAAACCTTAAATGTGTAGTTCCAGTCCCTTCTATGCAGAGTCTCTCCTGCCCTCCCTCCTTCCCTGCAGTCTCACCAC
GCCACCACCTCCCTCGGGGGCCTCCGCGCTGAGCTTCCGGCCTCTACGCCTCGCTTCCGGTTCGGCCGCCCCCTTCC
TTACTTCCGGTTCTCTATGGTGC GCGGGCAAGCTTTGCTCCGCCTCCGGCAGTGGCTTACTCCCGGTGCCAGGTT
CTTGAGCTGTGAGGAGGAACAACCATGT CATCAGAATCGAGCAAAAAACGGAAGCCCAAAGTGATCCGAAGCGA
TGGAGCCCCAGCTGAAGGAAAGCGGAATCGATCTGACACCGAGCAGGAAGGTAAATACTACAGTGAGGAGGCCGA
GGTGGATCTGCGGGACCCTGGCAGAGACTATGAGTTATACAAGTACACCTGCCAGGAGCTACAGAGGCTGATGGC
TGAGATCCAAGACCTGAAGAGCAGGGGTGGCAAGGATGTGGCAATAGAAATAGAAGAACGGAGGATCCAGAGCTG
TGTGCATTTTCATGACTCTAAAGAAGCTTAACCGATTAGCCACATCAGGTTGAAGAAAGGAAGAGATCAGACCCA
CGAGGCTAAGCAGAAAGTAGATGCCTATCATCTGCAGCTCCAGAACCTGTTGTATGAGGTGATGCACCTACAGAA
GGAGATCACCAAATGTTTGGAGTTAAGTCAAAGCATGAAGAAATTGATCTGGTCAGTTTAGAGGAGTTTATAAA
GGAGGCTCCACCAGATATCAGCAAGGCCGAAGTCACCATGGGAGACCCTCACCAGCAAAACTGGCACGTCTGGA
CTGGGAGCTGGAGCAGCGGAAAAGGCTGGCAGAGAAGTACCGAGAGTGCCATCTAACAAAGGAGAAGATTCTCAA
GGAGATTGAGGTGAAGAAGGAGTACCTGAGCAGCCTCCAGCCCCGCTCAACAGCATCATGCAGGCTTCCCTTCC
GGTGCAGGAGTACCTGTTTATGCCATTGACACAGGCTCACAAGCAGTATGAGACAGCCAGACACCTGCCGCCCTCC
CCTCTATGTCTCTTTGTTTCAGGCCACTGCGTATGGCGAGGCTGTGATAAGACGTTATCTGTGGCAATCGAAGG
CAGTGTGGATGAAGCCAAGGCTCTGTTCAAACCTCCAGAGGACTCCCAAGATGACGAGAGTGACTCAGATGCCGA
GGAGGAGCAGACTACGAAGCGCCGGAGACCCACACTGGGGGTTTCAGTTGGACGACAAACGCAAGGAGATGCTGAA
GAGGCACCCACTGTCTGT CATGCTCGACCTGAAGTSCAAAGATGACAGTGTGCTTCACCTGACTTTCTACTACCT
CATGAACCTCAACATCATGACAGTAAAAGCCAAAGTGACAACCTGCCATGGAGCTGATCACCCTCATCAGTGCAGG
TGACTTGCTGTCTCTGACTCAGTCCTGAGTTGCTTGATCTCTGGGGATCATGGAAGAAAACCTCCGAATCCAGC
CAATCAGTATCAGTTTGATAAAGTTGGCATCCTGACTTTGAGCGACTATGTACTTGAGCTAGGTACCCCCATTT
GTGGGTGCAGAAGCTGGGTGGCCTCCACTTCCCCAAAGAGCAGCCCCAGCAAAACAGTGATTGCTGACCACTCGCT
GAGCGCCAGCCACATGGAGACCACCATGAAACTTCTGAAGACCAGGGTGCAGTCCCGCCTGGCCCTCCACAAACA
GTTTGCATCCCTAGAACATGGCATTGTGCCAGTTACCAGTGATTGCCAGTACCTCTTCCCTGCCAAGGTTGTCTC
TCGCTTGGTGAATGGGTGACAGTTGCCCATGAGGATTACATGGAGCTGCACTTCACCAAAGACATTGTGGATGC
GGGACTGGCTGGGGACACCAATCTCTACTACATGGCGCTCATCGAAAGGGGCACAGCCAAACTGCAGGCCGCTGT
GGTGTGAACCTTGCTACTCCTCCATCCCACCTGTTTTCCAGCTCTGTTTGAACCTGGAAAGGGGAGAAAACCAA
CAGCAACGATGACAAACATTGCGGCCATGGAGGGCGAAGTCAATGTGTGCTACAAGGAGCTGTGTGGCCCTTGCC
CAGCCACCAGCTGTTGACCAACCAGCTGCAGCGGCTGTGTGTGCTGCTGGATGTTTACCTGGAGACCGAGAGCCA
TGACGACAGTGTGGAGGGGGCCCAAGGAATTTCCCCAGGAGAAGATGTGTCTGCGGCTCTTCAGGGGTCTTAGCAG
GATGAAGCCATTTAAATACAACCATCCTCAGGGATTCTTCAGCCATCGCTGATCTCCCGCGCAGACCGTTGTTTC
CCCCAAGGCCTCACCCTGAGCACTGGGCTTCTGCTTTCTGCTCTGGCCACATGTGACTCTTGATATTCTCCAAA
GACACCAGCCAATTA AAAAGCGTCACCTGACCAAGTGGCCTTTGTCTGTGGTTCTTGGAAGGTGGCTTTGCAGTC
TGGAAAGGGCAGGTGGGAGCTGTGACACAGTGTGAAAAAGCATTTGTAGAGAGACTTTTTCTCAGCAGCCAATAAA
AGCAGAGTGGAAAAAGATTCCAATTCTGCAGAGAGATGCTACCTCTTGICTACGCACACCTATTGTGCTTTG
CGGGGTGAGGTCCTCATGATCTTGATTTTATTATCCCAAGTTCTGCTGTTAAGAGGTGGTAGGAGAAGCCAAAG
GCAGCAGAGCACAAAAAGCAAACTCTTCCCTCCCCACCGCTCTTCCCATAGTCTGT CAGGGTTGCCGATGG
ACAAATTGTCTCTGATCGTTGGATGTTATAAATGTCTGACAGTGCAGTGC AAACAGAAGACAAACTCAGTTGATC
CTTGAACAACTCAGGGGTTAGGGGCACCAACACCCCTGCCCTGCACAGTTGAAAAATCCGTGTATAACTTTTGA
CTCCCTAAAAACTTA ACTAATAGCCTGCTGTTGACCAGTAGTATGCTATTAGTAGTTACTTACTGCTAACATAGT
CAGTACATATTTT CAGTATATATTTTGTATCTTATACACTGTATTCTTACAATACAGTAACTAGAGAAAAGAAA
ATGTTATAAGGAAAGTCACAAGGGGGCCTGAGTGCAGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCAA
GGCGGGTGGATCACTTGAGGT CAGGAGTTT GAGACCAGCCTGGCCGACATGGTGAAACCCTGTCTCTACTAAAAA
CATGGA AATTAGCCAAGCGTGGTGGCGCATGCCTGTAGTCCAGTTACTCAGGAGGCTGAGGCAGAATTACTTGA
ACCCATGAGGCAGAGGTTGCAGTAAGCCAAGATCACGCTCCTGCGCTCCGGCTTGGCGAGAGTGAGACTCCGTC
TCAAAAATAAATAAATAAGAAAGCCATAAGGAAGAAAATATATATCTACTATTAAGTAGAAGTGATCACCATAA
AGGCTTTCACATACTGTCTCAGGGTTGAATAGTCTAAGGAAGAGGAGGGGTTGGTCTTGGTGTCTCAGGGATGGC

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FIGURE 5993B

AGAGGCAGAAAAAGTGGGGGAGGTGGAGGGGGAGGCAGGCACCACTGTTATTTTTATTGAACAAAATCTGTGCAG
GGACTCATGACTGTAATCCTAGTACTTTGGAAAGCTAAGGCGGGAGGATCCCTTGAGGCCAGGAGTTCAGGTCCA
GCCTGGGCAACGTAGTGAGAGACCTGTATCTACAAAAAATTTAAAAATCAGCCAGGTGTGGTGGTATGCACCAA
TAGTCCCAGTTACTCAGAAGGCTGAGGTGGGCGGATGACTGGAGTCCAGGAGTTCAGGTAGCAGTGAGCTATTCT
ATCGTGCCTGTACTGTACTCCAGCCTGGGAAACAATGCGAGTCCCTATCTCTAAAAAATTTTAAAAAAGAAATC
TGCATATAATAGACCCACAGAGTCCAACTATTGTTCAGAGATCAACTGTACTTCACAGAGAGTAATTCTAAGTC
TTACAGGATTTTCATGGAGATGGCGAGAGTGGTGTGGAGAATCAATCACATACAGAGATACAGGACAGTGAGACC
AGGTAACATTTGAGGAGAATATTTTTTTTTTATTGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGCAGTG
GCACGAACACAGCTCACTGCCGCCTCAACCTCTCTGGGTTCAAGTGATCCTCCTGCCTCAGCCTCCCAAGTAGC
TGGGACCACAGGTGTGTGCCACCATTTCTGGCTAATTTTTAAATTTTTTGTAGAGGCGGGATCCCCTATTTTTTC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAATGATCCTCCACCTCGGCCTCCCAAAGTGCTAGGATTATAGGCAT
GAGCCACCACACCCGGCCTGAGTAGAGTCTTTAAGGTAATGACAAAAGTGCCTCAAAATATAATTATTTGATTAA
GAGAAGTCTTGGGAAGATAGGTAACAACCTTTAAAAATGTTCAAAAATTACATCCTTTGTAATACTCCTGCAAGT
CAAAGTAAAGGATGGCATAGACTATTCTTGGACAGTTTTGTCAAAAAGTGATCTTGACCCCAACATCAGTACTC
CATTCTTCATTTTAAAAAATAAGATGGGCTGGGCACAGTGGCTTACGCCTTTAATATCAGTACTTTGGGAGGCTG
GTGGGCGGATCACCTGAGATCAGGAGTTCAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAT
ACAAAAATTAGCTGGGCATGGTGGTGGCGCCTGTAAATCCCAGCCACTCGGGAGGCTGAGGCAGGAGAATTGCTT
GAATCCCCGAGGCGGAGGTTGCACTGAGCCGAGATGGTGCCACTGCACCATCTGGACAACAGAGCAAGACTCCGT
CTTGG

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FIGURE 5994

ACGGCAGCCGTCAGGGACCGTCCCCCAACTCCCTTTCCGCTCAGGCAGGGTCCTCGCGGCCCATGCTGGCCGCT
GGGGACCCGCGCAGCCCAGACCGTTCCCGGGCCGGCCAGCCGGCACCATGGTGGCCCTGAGGCCTGTGCAGCAAC
TCCAGGGGGGCTAAAGGGCTCAGAGTGCAGGCCGTGGGGCGCAGGGTCCCGGGCCTGAGCCCCGCGCC**ATG**GCC
GGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCGTGAGGATCGTC
ACCATGGACGCCGAGATGGAGTCAATTGCGAGATGAAGTGGAAAGGGAAGGACCTCTTTGATTGGTGTGCCGG
ACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCAAAATG
GACAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCTTTCACTTCTTGGCCAAATTTTATCCT
GAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTTATTCTTCTTACAGGTAAAGAAGCAGATTTTA
GATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTCCTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGAC
TACGACCCCAAGTGTTCACAAGCGGGGATTTTGGCCCAAGAGGAATTGCTTCCAAAAGGGTAATAAATCTGTAT
CAGATGACTCCGGAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCGAGGCCGAGCCAGGGATGAA
GCTGAAATGGAATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAACCTTTGCAATCCGGAATAAA
AAGGGCACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGGCTTCACATTTATGACCCTGAGAACAGACTGACCCCC
AAGATCTCCTTCCCGTGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAAACCACTGGAT
AAGAAAATTGATGTCTTCAAGTTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGG
AACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCAGGCCAGGGAG
GAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACG
AGGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGCCAACGAAGCACTGATGCGGTCT
GAGGAGACAGCTGACCTGTTGGCTGAAAAGGCCCAGATCACCGAGGAGGAGGCCAAACTTCTGGCCCAGAAGGCC
GCAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTTCGCACGGAGGAGGAGAAGCGCCTGATGGAG
CAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGAT
CAGCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGGAGCGAAGAGCCAAGCAGAAGCTCCTGGAGATTGCCACC
AAGCCACGTACCCGCCCATGAACCCAATTCCAGCACCGTTGCCTCCTGACATACEAAGCTTCAACCTCATTGGT
GACAGCCTGTCTTTTCGACTTCAAAGATACTGACATGAAGCGGCTTTCCATGGAGATAGAGAAAGAAAAAGTGGA
TACATGAAAAGAGCAAGCATCTGCAGGAGCAGCTCAATGAACTCAAGACAGAAATCGAGGCCTTGAACCTGAAA
GAGAGGGAGACAGCTCTGGATATTCTGCACAATGAGAACTCCGACAGGGGTGGCAGCAGCAAGCACAATACCATT
AAAAAGCTCACCTTGACAGAGCGCCAAGTCCCGAGTGGCCTTCTTTGAAGAGCTCT**AG**CAGGTGACCCAGCCACCC
CAGGACCTGCCACTTCTCCTGCTACCGGGACCGCGGGATGGACCAGATATCAAGAGAGCCATCCATAGGGAGCTG
GCTGGGGGTTTCCGTGGGAGCTCCAGAACTTTCCCCAGCTGAGTGAAGAGCCAGCCCCCTCTTATGTGCAATTGC
CTTGAACCTACGACCCTGTAGAGATTTCTCTCATGGCGTTCTAGTTCTCTGACCTGAGTCTTTGTTTTAAGAAGTA
TTTGTCT

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FIGURE 5995

MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFNCEMKWKGKDLFDLVCRTLGLRETWFFGLQYTIKDTVAVL
KMDKKVLDHDVSKEEPVTFHFLAKFY PENAEELVQEITQHLEFLQVKKQILDEKIYCPPEASVLLASYAVQAKY
GDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMYGVNYFAIR
NKKGTELLLGVDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKIDVFKFNSSKLRVKNLILQLC
IGNHDLFMRRRKADSLEVQQMKAQAREEKARKQMERQRLAREKQMRREEAERTRDELERLLQMKEEATMANEALM
RSEETADLLAEKAQITEEEAKLLAQKAAEAQEMQRIKATAIRTEEEKRLMEQKVLEAEVLALKMAEESERRAKE
ADQLKQDLQEAAREAERRAKQKLEIATKPTYPMPNPIAPLPPDIPSFNLIGDSLSDFKDITDMKRLSMEIEKEK
VEYMEKSKHLQEQNLKTEIEALKLKERETALDILHNENS DRGGSSKHNTIKKLTLSAKSRVAF FEEL

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FIGURE 5996

GGCACGAGGCCGGAAGTGC GGCGCTCAGGGAGCTGTACCGTGGTCGGCGGCGGCGGCGGCGGCGGCACAG
AGCCGGTGGTGGAGCCGCCGAGGAGGGTCACGCAGCACAAATGCCAGCTCTGCCCCCTGGACCACTCCAGATCACC
CACAAGGACCCGAAGACAGGAAAGCTGAGGACTTCACCAGCGCTGCACCCCGAGCAGAAGGCAGACCGGTATTTT
GTGTTATACAAACCGCCCCCTAAAGACAACATTCCCGCCCTAGTGGAGGAGTACCTGGAACGCGCCACCTTCGTA
GCCAATGACCTCGACTGGCTCCTGGCCTTGCCCTACGATAAATTCTGGTGCCAGGTGATCTTTGACGAGACTCTA
CAGAAGTGCTGGACTCTACCTGCGCTATGTCCCCCGCAAATTCGACGAGGGGGTGGCCTCAGCCCCCTGAGGTT
GTTGACATGCAGAAGCGCCTCCATCGAAGTGT TTTTCTCACCTTCCTCCGCATGTCCACTCACAAGGAATCCAAA
GATCACTTCATTTCCCTTCTGCGTTTGGAGAAATCCTCTACAATAACTTCCTCTTTGACATTCCAAAGATCCTG
GACCTCTGCGTGCTCTTTGAAAAGGCAACTACCACTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAG
CCAAGTTACTACAGTGACCTGGATGAAACCTGCCTACCATCCTTCAGGTCTTCAGCAATATCCTCCAGCACTGT
GGTTTGCAAGGGGACGGGGCCAATACCACACCCCGAGAAGCTTGAGGAGAGGGGCGATTGACCCCACTGACATG
CCTCTCCTGGAATTAAGGACATTGTTCTCTACCTTTGTGATACCTGCACCACACTTTGGGCCTTCTGGATATC
TTCCCTTTGGCTTGCCAGACCTTCAGAAGCAGACTTTTGTACAGACTAGCTTCCTTCTACGAAGCAGCAATT
CCCGAAATGGAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGGTGACCTGTGGCAGAGGCTC
TCCCATTCAGGAAGAAGCTAATGGAGATTTCCACATCATCTGAACCAGATCTGCCTCCTTCCCATCCTAGAA
AGCAGCTGTGACAACATTACGGGCTTCATCGAAGAGTTCTTCAGATCTTCAGCTCCTTGCTGCAGGAGAAGAGG
TTCTCCTCGGGACTATGATGCACTCTTCCCCGTGGCCGAAGACATCAGCTTGCTGCAGCAGGCCTCATCAGTCTTG
GACGAGACGCGGACTGCCTACATCCTCCAGGCAGTCGAGAGTGCATGGGAAGGGGTGGACAGACGGAAAGCCACA
GATGCTAAAGACCCATCGGTGATTGAGGAGCCTAATGGGGAGCCTAACGGGGTCACGGTGACAGCAGAGGCAGTC
AGTCAAGCATCATCACATCCGGAGAACTCGGAGGAAGAGGAGTGCATGGGAGCAGCCGCGGCTGTGGGCCCTGCC
ATGTGTGGGGTGAACTGGACTCTCTCATCTCCCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATC
CTGGCCTGCCTGGAGTACTACCACTACGACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCCC
ACCCTCAGCCAGCTGGACCGCAACCTAGACAGAGAAATGAAACCAGACCCCTACACCCCTGCTGACGTCTCGCCAC
AACGTCTTCAGAATGACGAGTTTGATGTGTTACGACGGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAG
AGCACCAGGAAGGAGGAAAACACGCGGAGTTTGCTGAACGACAAGCGTGCAGTGGCGGCACAGCGGCAGCGCTAC
GAGCAGTACAGCGTGGTGGTGGAGGAGGTGCCACTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTAC
GAGGATGAGTACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGCTCATC
AGCCGCAGGCCATTACCATCCCTCAGGTGCTGAGAACCAAAGTGCCTAGAGAAGGGCAGGAGGAGGATGACGAC
GATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGCCCGACCATTTTGTTCAGGACCCTGCAGTGCTGAGAGAG
AAGGCAGAAGCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGTACCGGCATGACAGCTCAACAGCAGTGGCCGGC
AGCCCCCGAGGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGA
GCCAACCACAACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCCTTGAGACCTGGTGCAG
GGCCAGTGGGGAGGCAGCGGCACCACTCACCAGGCCGTGCTCCCATCGCCTGGGGCCTCCTCACTAGGGGCC
CAAGTTCAACTCAACCCCTCAACAGCCTCAGCTTTGCAGCCCTGAGAAGGCCGCTCTCATCTACCAGCCAGCC
ATGAGCGCCTTCTGTCAGAACACACAGTGCCTTATGCCACAGCCGAAGAATCCGTGGGGCCGGCAAGCAGGCACC
TTCCCCCAGCTGCGCTAGCGGGAAAGAGATGGGGATGGAGTCCCAAGGCAAGCGCCCAACCTCGGGCCACAAG
ACACCACTTCCCCTTTACCTTGACAGCAGGAACCTGTATATTCAAAAACAAAAAGTCTGCTAATAAAATT
TTTGACCCTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5997

MPALPLDQLQITHKDPKTGKLRTSPALHPEQKADRYFVLYKPPKDNIPALVEEYLERATFVANDLDWLLALPHD
KFWCQVIFDETLOKCLDSYLRVPRKFDEGVASAPEVVDQMQRHLRSVFLTFLRMSTHKESKDHFISSAFGEIL
YNNFLFDIPKILDLCVLFKGKNSPLLQKMIGNIFTQQPSYSDLDLPTILQVFSNQLQHCGLGQDGANTTPQK
LEERGRLTPSDMPLLELKDIVLYLCDTCTTLWAFLDIFPLACQTFQKHDFCYRLASFYEAAIPEMESAIAKKRRLE
DSKLLGDLWQRLSHSRKKLMEIFHIIILNQICLLPILESSCDNIQGFIEEFQIFSSLLQEKRFIRDYDALFPVAE
DISLLQQASSVLDETRTAYILQAVESAWEGVDRRKATDAKDPVIEEPNGEPNGVTVTAEAVSQASSHPENSEEE
ECMGAAAAGVPMCGVELDSLISQVKDLLPDLGEGFILACLEYYHYDPEQVINNILEERLAPTLSQLDRNLDREM
KPDPTPLLTSRHNVFQNDDEFDVSFSDSVLSRVHKGKSTRKEENTRSLNDKRAVAAQRQRYEQYSVVVEEVPLQ
PGESLPYHSVYYEYDDTYDGNQVGANDADSDELISRREFTIPQVLRKVPREGQEEDDDDEEDDADEEAPKP
DHFVQDPAVLREKAEARRMAFLAKKGYRHDSSSTAVAGSPRGHGQSRETTQERRKKEANKATRANHNRRTMADRKR
SKGMIPS

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FIGURE 5998

ATGGCTTGGGGAGTCAGTGCCAAATGGAGTAACGAGGGCATCACAAGTGTGGGTGACCCACAGTGGGAATGCCAG
AGTTGGAGCCTGAGCAGGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAATAACTATGGGAAAG
ACACTCATCGCCAGGACTCAAGGAATCAAAATTGCATCTGATGGCCTCAAGGGTCATGTGTTTGAAGTCTGCCAA
ATCCAGAAGAAGATGATGGAAATCATGACCCAAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTG
ATTCCAGACAGCACTGGAAAAGACATAGAAAAGGCTTGCCTATCTGTTTATCCTCTCCATGGTGTCTTCATTAGG
AAAGTAAAAATAAAGAAGCCCAAGTTTGAATTGGGAAACTCATGTAG

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FIGURE 5999

GGCAGAGGCCGCAACTCGCTCGGCCGCCGCCATCTTGCGAGCTCGTCTGACTGACCGAGCGGGGAGGCTGTCTT
GAGGCGGCACCGCTCACCAGACCCGAGGCGGACTGGCAGCCCTGAGCGTCGCAGTCAATGCCGCGCCGACCCGTC
AGGCGGTGCCCCCGCCGCCCGCTGCCACGGAGCCCAAACAGCCACAGAAGAAGAAGCATCTTCAAAGGAGG
ATTCTGCACCTTCTAAGCCAGTTGTGGGGATTATTTACCTCTCTCCAGAGGTCAGAAATATTGTTGACAAGACTG
CCAGCTTTGTGGCCAGAAACGGGCCTGAATTTGAAGCTAGGATCCGACAGAACGAGATCAACAACCCCAAGTTCA
ACTTTCTGAACCCCAATGACCTTACCATGCCTACTACCGCCACAAGGTCAGCGAGTTCAAGGAAGGGAAGGCTC
AGGAGCCGTCCGCCGCCATCCCCAAGGTCATGCAGCAGCAGCAGCAGACCACCAGCAGCAGCTGCCCCAGAAGG
TCCAAGCCCAAGTAATCCAAGAGACCATCGTGCCCAAAGAGCCTCCTCCTGAGTTTGAGTTTCATTGCTGATCCTC
CCTCTATCTCAGCCTTCGACTTGGATGTGGTGAAGCTGACGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTC
TGACCCAGCTGATGCAGAAAGAGCAGCGCACTACCAGTTTGACTTTCTCGCCACAGCACAGCCTCTTCAACT
ACTTCACGAAGCTAGTGGAACAGTACACCAAGATCTTGATTCCACCCAAAGGTTTATTTTCAAAGCTCAAGAAAG
AGGCTGAAAACCCCGAGAAGTTTGGATCAGGTGTGTTACCGAGTGGAATGGGCCAAATTCCAGGAACGTGAGA
GGAAGAAGGAAGAAGAGGAGAAGGAGAAGGAGCGGGTGGCTATGCTCAGATCGACTGGCATGATTTTGTGGTGG
TGGAACAGTGGACTTCCAACCCCAATGAGCAAGGGAACCTCCCTCCCCCACCACGCCAGAGGAGCTGGGGGCC
GAATCCTCATTAGGAGCGCTATGAAAAGTTTGGGGAGAGTGAGGAAGTTGAGATGGAGGTCGAGTCTGATGAGG
AGGATGACAAACAGGAGAAGGCGGAGGAGCCTCCTTCCAGCTGGACCAGGACACCCCAAGTACAGATATGGATG
AGGGTTCAGATGATGAAGAAGAAGGGCAGAAAGTGCCCCCACCACAGAGACACCCATGCCTCCACCTCTGCCCC
CAACTCCAGACCAAGTCATTGTCCGCAAGGATTATGATCCCAAAGCCTCCAAGCCCTTGCCCTCCAGCCCCCTGCTC
CAGATGAGTATCTTGTGTCCCCATTACTGGGGAGAAGATCCCCGCCAGCAAAATGCAGGAACACATGCGCATTG
GACTTCTTGACCCTCGCTGGCTGGAGCAGCGGGATCGCTCCATCCGTGAGAAGCAGAGCGATGATGAGGTGTACG
CACCAGGTCTGGATATTGAGAGCAGCTTGAAGCAGTTGGCTGAGCGGCGTACTGACATCTTCGGTGTAGAGGAAA
CAGCCATTGGTAAGAAGATCGGTGAGGAGGAGATCCAGAAGCCAGAGGAAAAGGTGACCTGGGATGGCCACTCAG
GCAGCATGGCCCCGGACCCAGCAGGCTGCCAGGCCAACATCACCCTCCAGGAGCAGATTGAGGCCATTACAAGG
CCAAAGGCCTGGTGCCAGAGGATGACACTAAAGAGAAGATTGGCCCCAGCAAGCCCAATGAAATCCCTCAACAGC
CACCGCCACCATCTTCAGCCACCAACATCCCCAGCTCGGCTCCACCCATCACTTCAGTGCCCCGACCACCCACAA
TGCCACCTCCAGTTCTGACTACAGTTGTCTCCGCAGTACCCGTCATGCCCGGCCCCCAATGGCATCTGTGGTCC
GGCTGCCCCCAGGCTCAGTGATCGCCCCCATGCCGCCATCATCCACGCGCCAGAAATCAACGTGGTGGCCATGC
CTCCCTCGGCCCCCTCTATTATGGCCCCCGCCACCCCATGATTGTGCCAACAGCCTTTGTGCTGCTCCAC
CTGTGGCACCCTGTCCAGCTCCAGCCCCAATGCCCCCTGTGCATCCCCACCTCCCATGGAAGATGAGCCACCT
CCAAAAAAGTGAAGACAGAGGACAGCCTCATGCCAGAGGAGGAGTTCTTGCGCAGAAACAAGGTTCCAGTGTCCA
TCAAAGTCCAGGTGCCCAACATGCAGGATAAGACGGAATGGAACTGAATGGGCAGGTGCTGGTCTTCAACCTCC
CACTCACGGACAGGTCTCTGTCTAAGGTGAAGATTCTGAAGCCACAGGCATGCCTGCAGGGAAACAGAAGC
TACAGTATGAGGGTATCTTCAATCAAGATTCCAACCTCACTGGCTTACTACAACATGGCCAATGGCGCAGTCATCC
ACCTGGCCCTCAAGGAGAGAGGCGGGAGGAAGAAGTAGACAAGAGGAACCTGCTGTCAAGTCCCTGCCATTTTGC
CTCTCTGTCTCCACCCCTGCCAGACCCAGGAGCCCCCTGAGGCTTTGCCTTGCTGCATATTGTTTCG
CTCTTACTCAGTTTGGGAATTCAAATTGTCTGCAGAGGTTCACTCCCTGACCCTTTCCCACATTGGTAAGAG
TAGCTGGGTTTTCTAAGCCACTCTCTGGAATCTCTTGTGTTAGGGTCTCGATTGAGGACATTCACTTCTTCAG
CAGCCCATAGCAACTGAGAGCCAGGGATGTCTACAGGATAGTTTCATAGTGACAGGTGGCACTTGGCTAATA
GAATATGGCTGATATTGTCTAATCATTCTTGTACCTTGACATGGGTGTCTAATAAACTCGGACCCCTCTTGT
GAAAAAAAAAAAAAAAAA

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FIGURE 6000

MPAGPVQAVPPPPVPTEPKQPTTEEEASSKEDSAPSKPVVGGIYPPPEVRNIVDKTASFVARNGPEFEARIRQNE
INNPKNFNLNPNDPYHAYYRHKVSEFKEGKAQEP SAAIPKVMQQQQQTTOQQLPQKVQAQVIQETIVPKEPPPEF
EFIADPPSISAFDLDVVKLTAQFVARNGRQFLTQLMQKEQRNYQFDFLRPQHSLFNYFTKLVEQYTKILIPPKGL
FSKLKKEAENPREVLDQVCYRVEWAKFQERERKKEEEEKEKERVAYAQIDWHDFVVVETVDFQNEQGNFPPPTT
PEELGARILIQERYEKFGESEEVEMEVESEDEDDKQEKAEPPSQLDQDTQVQDMDEGSDDEEEGQKVPPPPETP
MPPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGEKIPASKMQEHMRIGLLDPRWLEQRDRSIREKQ
SDDEVYAPGLDIESSLKQLAERRTDIFGVEETAIGKKIGEEIQQKPEEKVTWDGHSGSMARTQAAAQANITLQEQ
IEAIHKAKGLVPEDDTKEKIGPSKPNEIPQQPPPPSSATNIPSSAPPITSVPRPPTMPPPVRTTVVSAVPVMPRP
PMASVVRLLPPGSVIAPMPPIIHAPRINVVPMPPSAPPIMAPRPPPMIVPTAFVPAPPVAPVPAPAPMPPVHPPPP
MEDEPTSKKLKTEDSLMPEEEFLRRNKGVPVS IKVQVPNMQDKTEWKLNGQVLVFTLPLTDQVSVIKVKIHEATGM
PAGKQKLQYEGIFIKDSNSLAYYNMANGAVIHLALKERGGRKK

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FIGURE 6001

ATGAGGTGGGCGAGGCTTTCCGCTCTCTTGIGCCAGCGGCGGGTGGTGTGGCTGAGCTATGGCGTGGCCAGCTCC
TACGTGCTGGCGGATGCCATTGACAAAGGCAAGAAGGCTGGAGAGGTGCCAGCCCTGAAGCAGGCCGCGAGCGCC
AGGGTGACTGTGGCTGTGGTGGACACCTTTGTATGGCAGGCTCTAGCCTCTGTGGCCATTCCGGGCTTCACCATC
AACCGCGTGTGTGCTGCCTCTCTCTATGTCTGGGCACTGCCACCCGCTGGCCCCCTGGCTGTCCGCAAGTGGACC
ACCACCGCGCTTGGGCTGTTGACCATCCCCATCATTATCCACCCCATGACAGGTCGGTGGATTTCCTCCTGGAC
TCCAGCCTGCGCAAGTCTACCCAACAGTGGGGAAGCCCAGCTCCTCCTGATCATACTCTGGTACCTGGCCTGTGC
ATCGGCCTCCTGCTTCATGTCAACCTCCTACTCCTGCCAGGGAATGTGGACACCTGGCTCCCTGGTGTCCAAAGA
CCCTGGCACCTGGGTGGGTTTGAGCTGGACAGAAGCTTAGAGACAAAGGCTTCAAGAAGCAGTGGCTGCAGGGAG
TCACAGAAGGGCAGGACCTTGA

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FIGURE 6002

MRWARLSALLCQRRVVWLSYGVASSYVLADAIDKGKKAGEVPSPEAGRSARVTVAVVDTFVWQALASVAIPGFTI
NRVCAASLYVLGTATRWPLAVRKWTTTALGLLTIPIIIHPIDRSVDFLLDSSLRKSTQQWGSPAPPDHTLVPGLC
IGLLLVNLLLLPGNVDTWLPGVQRPWHLGGFELDRSLETKASRSSGCRESQKGRT

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FIGURE 6003

CACGAGGAAGTGGAGCTGCCTGTACGCGCGGCCCTAGTCGGCTCCTCAACGTGGAGCGATGGGAGGCCTTGAGAA
GAAGAAGTATGAACGAGGCTCGGCCACCAACTACATCACCCGGAACAAAGCCCGGAAGAAGCTCCAGCTGAGCTT
GGCTGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTATCCCCATGAACCCAAACACAAGAAGAAGGTTAACAA
GGGTTCTACAGCAGCCCCGAACGTTTTACCTTATCAAAGACATCAGGTTTCTCCTCCACGAACCCATTGTCAACAA
GTTCCGTGAATAACAAGGTGTTCTGTCGGAAGCTCCGGAAGGCTTATGGGAAGAGCGAGTGGAACACTGTAGAGCG
TTTAAAGGACAATAAGCCCCAACTACAACTCGACCACATCATCAAGGAACGGTATCCACGTTTCATCGATGCCCT
GCGGGACCTGGACGATGCCCTCTCCATGTGCTTCTGTTTTCCACCTTCCCGCGGACTGGCAAGTGCCACGTGCA
GACCATTACGCTGTGCCGCGGCTCACTGTGGAGTTTCATGCACTACATTATCGCTGCCCCGTGCCCTGCCAAGGT
CTTCCTGTCCATCAAAGGCATTACTACCAGGCCGAGGTACTGGGGCAGCCCATCGTGTGGATCACTCCCTATGC
CTTCTCCCATGACCACCCGACAGAGCTGGACTACAGGGTCATGGCCACCTTCACCGAGTTCTACACCACGCTGCT
GGGCTTTGTCAACTTCCGCCTTACCAGTTGCTCAACCTCCACTATCCCCCGAAGCTCGAGGGTCAGGCCCAAGC
AGAGGCAAAGGCCGCTGAGGGCACCTACGCGTTGACTCCGAGAGTTGTATGGAGAACTGGCAGCCCTCAGTGC
CAGCCTGGCCCCGCTGGTGGTGCCTGCCACAGAGGAGGAGGCCGAGGTGGATGAGTTTCCACCGATGGGGAGAT
GTCAGCGCAGGAGGAAGACCGCAGGAAGGAGCTGGAGGCGCAGGAGAAGCACAAGAAGCTTTTTGAGGGCCTGAA
GTTCTTCTGAAACCGAGAGGTGCCCCGTGAGGCCCTGGCCTTTCATCATCAGGAGTTTGGTGGGGAAGTGTCTG
GGACAAATCTTTGTGCATTGGGGCCACCTATGACGTCACAGACTCCCGCATCACCCATCAGATTGTGACCGGCC
TGGGCAGCAGACCTCAGTCATTGGCAGGTGCTACGTGCAGCCCCAGTGGGTGTTTGACTCAGTGAACGCCAGGCT
CCTTCTCCCCGTGGCAGAGTACTTCTCTGGGGTGCAGCTGCCCCCACACCTTTCACCTTTGTGACCGAGAAGGA
AGGAGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGGCTCTGCAGCGGGGAGAGGACCCAGGAAACCTGAATGA
GTCAGAAGAGGAGGAGGAAGAGGACGACAACAACGAAGGTGATGGTGATGAAGAGGGAGAAAATGAGGAGGAGGA
GGAAGATGCAGAGGCTGGTTTCAGAAAAGGAGGAAGAGGCCCGGCTGGCAGCCCTGGAAGAGCAGAGGATGGAGGG
GAAGAAGCCCAGGGTGATGGCAGGCACCTTGAAGCTGGAGGATAAGCAGCGGCTGGCCCAGGAGGAGGAGTGA
GGCCAAGCGCCTGGCCATTATGATGATGAAGAAGCGGGAGAAAGTACCTGTACCAGAAGATCATGTTTGGCAAGAG
GCGAAAAATCCGAGAGGCCAACAACTGGCGGAGAAAGCGGAAAGCCCCACGATGAGGCGGTGAGGTCTGAGAAGAA
GGCCAAGAAGGCAAGGCCGGAGTGAGTGCCTGCGGCCCTCACAGGGCTGAGGCCAGCCCCCTAGCAGCTGGATGT
GGCAGAGGCAGGCCAGAGGACCTAAGTGTGATGGACCAGAGTCACTTCTCCTCCTCTTCTCCAGCCAGCCCTG
ACCCCTCATGCTCTCTGGCTGGGCCAGTGGGCAGCCCTCGCTTCCCTTGGATGGAGCTGCCCTGCTGGTGCCTGG
TCAGAGAAGAGGCCTCTGTGCCAGCCTGATTCTCTGCTCCAGGAGCCAGTGACATGAGGTGCAGAGGCCACC
CAGCCCCCTACCTACTGCCCCATTATCTGGCTTTCCACAGCCCCCTCCACACAGTTGGACCCGTGATTCTC
AGGGTGCTGTGATGGGGTGAAGGTAGGGGGAGCATTTGTTATTAAATGACTGGACTTTTGAIAAAAAAAAAAAAA
AAAAAA

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FIGURE 6004

MGGLEKKKYERGSATNYITRNKARKKLQSLADFRRLCILKGIYPHEPKHKKVKNKGSTAARTFYLIKDIRFLLH
EPIVKNKFREYKVFVRKLKAYGKSEWNTVERLKDKNPNYKLDHIKERYPTFIDALRDLDALSMCFLFSTFPRT
GKCHVQTIQLCRRLTVEFMHYIIAARALRKVFLSIKGIYYQAEVLGQPIVWITPYAFSHDPTDVDYRVMATFTE
FYTTLLGFVNFRLYQLNLHYPPKLEGQAQAEAKAGEGTYALDSESCMEKLAALSASLARVVVPATEEEAEVDEF
PTDGEMSAQEEDRRKELEAQEKHKLFEGLKFFLNREVPREALAFIIRSFGEVSWDKSLCIGATYDVTDSTRITH
QIVDRPGQOTSVIGRCYVQPOWVFDVSVNARLLLPVAEYFSGVQLPPHLSPFVTEKEGDYVPPEKLKLLALQGED
PGNLNESEEEEEEDDNEGDGDEEGENEEEEEDAEAGSEKEEEARLALEEQRMEGKKPRVMAGTLKLEDKQRLA
QEESEAKRLAIMMMKKREKYLYQKIMFGKRRKIREANKLAEKRAHDEAVRSEKKAKKARPE

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FIGURE 6005A

CGAGACTCAGATTGCTCTGAATTGAGCTATCGCAACTTAATGCTAAAAGCTCCTTAAAGCTACAGATTTATGACAT
AGTTCCTTCCAAAATATTACATCATAAATCATTGAGAAGATTAAAAAAAACACTTGAAGAAATTGTAGTTTTAA
ACATCTCTGCATATATTTTGGATAGCTACTAGGTTACTTTAACTGTCATTAAAGGAGCACAGACTTACTGAAGCTT
TACTGGACAGAATCCTGGGAAATCGATATCATTATAAGGTTATATTTCCAGTTAGCGGGTGAAGGGCTGGAGAC
CTTATTGCAGTCATGGCTTTCACAAATTACAGCAGTCTGAATCGAGCTCAGCTAACCTTTGAATATCTGCACACA
AATTCGTAAGTATCCTCTAGGTGCCACTGAGGTAACCAGTAACGTTCCCTTGATATTATATGGAAATCGTTTCC
CCAGAAAATTTTGCTTTTTTCACTTTTTGAGATGTATCCCAGTGGAGTGAAATGTGTCAGTGGATATCTTGAGCTC
TGTATTGAAGAACTGAGATCAGTGAAATACTTGTGTCTAATCCAGAAGAATCTGATTTTTGTTTATTGGATCAAA
ATTTTCTAAATGCAAACCTTTAGTTATTTGAAGTCAATATGTTGAGTTGTTTCAATCAAGTGTATATAGGAATCCA
ACAAATACTGCTCTATTGGATCGCCAAATGTTGGACTATTTTAGTATCAACCGTTTCCCCTCTGTAGTGACAACG
TCCTAAACAGTTAGGTTTATAACAAGTGTGTACTTTCTAACAAGAAAACAGAAGACATTTAAATGACAACCTTTCA
AGAAGAAAATTTTATTTTTTTCAGAAGTTGGCATTATCTTCCCTGGCAGATTGCTCACATCCAATATTTATTTGTAT
ATGCTAAACAGGAAACGGCAACTTGTTTATATCTCTATTTAGATAGTCTTTCCCCAAAATTTCCACAGAAACATA
CAGTGTTCATGGTTCTTGAGTTCATGAAGGAGTAATCTAATCACTCCAACATGGTCTGGAATGTTTCAGGTTTAA
TCCATATGCCCACTCTCTTGGAGGCTGTCCAGTAGCGTCAAAACCTTAGTGTTTTAATACATTCACCTGTTACTT
TTGAGATGAAGTTCACCTTTCTTGATCACATGCAAGGATGTTTGGTCTGTGAAGAAAAGAATTTCTAGGCCG
GGTGTCTGTGGCTCAGCCTGTAAATCCAGCACCTTTGGGAGGCCGAGAACCCTCAGCAATCTTGTGTTGGTGCTC
TTGCTGAAGTGGTTGATAATGCAAGAGATGCTGATGCCACCAGAATAGATATTTATGCGAAAGACGAGAGGACC
TTCGAGGAGGATTTATGCTTTTGGATGATGGAGCAGGAATGGATCCAAGTGATGCTGCCAGTGTGATCC
AGTTTGGGAAGTCGGCCAAGCGAACACCTGAGTCTACTCAGATTGGGCAGTACGGGAATGGGTTAAAATCGGGCT
CAATGCGCATTGGGAAGGATTTATCCTGTTTACCAGAAGGAAGACACCATGACGTGCCTCTTCTGTCTCGCA
CGTTTCATGAGGAAGAAGGCATTGATGAAGTGATAGTCCCACTGCCCACTGGAATGCTCGGACCCGGGAACCTG
TCACAGACAAGTAGAGAAATTTGCCATTGAGACAGAACTCATCTATAAGTACTCTCCATTCCGCACTGAGGAGG
AAGTGATGACCCAGTTTATGAAGATTCCTGGGGACAGCGGAACATTGGTGATCATCTTCAATCTCAAACATCATGG
ATAATGGAGAGCCAGAAGTACATAATCTCAAATCCAAGAGATATCCAGATGGCAGAGACGTCCCAGAGGGCA
CGAAGCCAGAGCGCGCTCGTTCCGTGCTATGCCGCTGTGCTCTATATTGATCCCCGGATGAGGATCTTCAATCC
ATGGGCACAAGGTGCAGACCAAGAGGCTCTCTGTGCTGCTGTACAAGCCAGGATGTACAAGTACACGTCAAGCC
GTTTCAAGACCCGTGCGGAGCAGGAGGTGAAGAAAGCAGAGCACGTAGCAAGGATTGCTGAAGAGAAGGCGCGGG
AGGCAGAGAGCAAAGCTCGGACATTAGAAGTACGCCCTAGGTGGAGACCTCAGCGGGACTCCAGGGTGATGTTGC
GACAGGTCCAGAACAGAGCCATCACTCTGCGCAGAGAAGCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGC
GAGCACTTAAAGAACCTAAGGAACCTGAATTTTGTGTTTGGTGTCAACATTGAACACCGGGATCTGGATGGCATGT
TCATCTACAACCTGTAGCCGACTGATCAAAATGTATGAGAAAGTGGGCCACAGCTGGAAGGGGGCATGGCATGTG
GCGGGGTTGTTGGGGTTGTTGATGTGCCCTACCTGGTCTGAGCCTACACACAACAACAGGACTTTGCTGATG
CCAAGGAGTACCGGCACCTGCTCCGAGCAATGGGGGAGCACCTGGCGCAGTATTGGAAGGATATTGCCATCGCCC
AGAGGGGAATCATCAAGTTCTGGGATGAGTTTGGCTACCTCTCTGCCAACTGGAACCAGCCCCGTCCAGTGAGC
TGCGTTACAAACGCCGAGAGCTATGGAAATCCCCACCACCATCCAGTGCGATTGTTGTCTGAAATGGAGAACCC
TCCCCTTCCAGCTGAGTTCTGTGGAAGAAAGATTACCTGACACCTGGGTTTGCTCCATGAACCTGATCCTGAAC
AGGACCGGTGTGAGGCTTCTGAACAAAAGCAGAAGGTTCCCCTGGGAACATTGAGAAAGGACATGAAGACGCAGG
AAGAGAAGCAGAAACAACTGACAGAGAAAATTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACACAC
CCATCCGCTCCCAAGCAGACCTGAAGAAATTGCCCTTGGAAGTGACCACCAGACCTTCCACTGAGGAACCTGTGC
GTAGACCTCAGCGTCTCGGTGCGCCCCCTTACCTGCTGTGATCAGGAACGCCCCCAGCAGACCCCCCTTCTTTGC
CAACTCCTAGACCAGCCAGCCAGCCCCGAAAGGCTCCTGTCAATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAG
CCCCGGGAGGAGGCCAGCATCTAGGCTGCTCCAGCCACCTGAGGCACCCGAAAGCCTGCCAACACTCTCGTCA
AGACTGCATCCCGACCTGCCCCCTCTGGTGACGAACTGTACCATCTTTACTGCCAACTCCAAAGAGCCCTCGGG
AGGTTCTTCTCCAAAGTCATCAAGACTCCAGTGGTGAAGAAGACAGAGTCACCCATCAAACCTCTCCCCGGCTA
CCCCTAGTCGGAAGCGGAGTGTGCGAGTTTCTGATGAGGAAGAAGTTGAGGAGGAAGCTGAGAGGAGGAAGGAGA
GGTGCAAGCGGGGAGATTGTTGTGAAGGAGGAAAAGAAGGACTCGAATGAGCTCTCAGCAGTGTGTTGGGGAAG
AGGACTCGGCTGACCTCAAGAGAGCTCAGAAAGATAAAGGGCTGCACGTGGAGGTGCGTGTGAACAGGGAGTGGT

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FIGURE 6005B

ACACGGGCCGTGTACAGCCGTGGAGGTGGGCAAGCATGTGGTGCGGTGGAAGGTGAAGTTTGACTACGTGCCCCA
CAGACACGACACCAAGAGACCGCTGGGTGGAGAAAGGCAGTGAGGATGTGCGGCTGATGAAACCCCTTCTCCGG
AACATCAGAGCCTTGATACACAACAGGAGGGCGGGGAGGAGGAGGTGGGCCCTGTGGCCCAGCAGGCCATAGCTG
TCGACAGAGCCCTCCACTTCCGAATGCCTCCGCATTGAGCCTGACACCACTGCCCTGAGCACCAATCACGAGACCA
TCGACCTGCTTGTCAGATCCTCCGGAATTGTTTACGGTACTTCTGCCTCCAAGTTTCCCCATCTCCAAGAAGC
AGCTGAGTGCTATGAATTCAGATGAGCTAATATCTTTTCTCTGAAGGAGTACTTCAAGCAATATGAAGTAGGGC
TCCAAAACCTGTGCAATTCCTACCAGAGCCGTGCTGACTCCCGGGCCAAGGCCTCCGAGGAAAAGCCTGCGCACCT
CCGAGAGGAAGCTCCGCGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTGGCCTCCTGCAAAAGG
TGCAGGAGGACATAGACATCAACACAGATGATGAGCTGGACGCCTACATTGAGGACCTCATCACCAAGGGGGACT
GAAGGCAGGAGAGAGAGCAGCTCCCCTGCCACCTGCCCCCAACCCTGTAGCTGCAGGGGGAGGGGACTTCATT
CATGGGTTGGTGGTCGCACCTTGGTTTGACTTACACGGGACATTTGTGTTTTTGGAGGAAAAGATACCCGTATT
TTTGAATCTTCCTTAAGTTTATAAATATTTATTTTTTAAAAG

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FIGURE 6006

MLCFLDDGAGMDPSDAASVIQFGKSAKRTPESTQIGQYGNGLKSGSMRIGKDFILFTKKEDTMTCLFLSRTFHEE
EGIDEVIVPLPTWNARTREPVTDNVEKFAIETELIYKYSFRTTEEEVMTQFMKIPGDSGTLVLIIFNLKLMDN
ELDIISNPRDIQMAETSPEGTKPERRSFRAYAAVLYIDPRMRIFIHGHKVQTKRLSCCLYKPRMYKYTSSRFKTR
AEQEVKKAHEVARIAEEKAREAESKARTLEVRLGGDLTRDSRVMLRQVQNRAITLRREADVKKRIKEAKQRALKE
PKELNFVFGVNIHRDLGDMFIYNCSRLIKMYEKVGPQLEGGMACGGVVGVDVPYLVLEPHTHNKQDFADAKEYR
HLLRAMGEHLAQYWKDIAIAQRGIIKFWDEFGYLSANWNQPPSSELYKRRRAMEIPTTIQCDLCLKWRTLFPQL
SSVEKDYPDTWVCSMNPDPEDRCEASEQKQKVPLGTFRKDMKTQEEKQKQLTEKIRQQQEKLEALQKTPIRSQ
ADLKKLPLEVTTRPSTEEPVRPQRPSPPLPAVIRNAPSRRPSLPTPRPASQPRKAPVISSTPKLPALAAAREEA
STSRLLOPPEAPRKPAANTLVKTASRPAPLVQQLSPSLLPNSKSPREVPSPKVIKTPVVKKTESPIKLSPATPSRK
RSVAVSDEEEVEEEAERRKERCKRGRFVVKEEKKDSNELSDSAGEEDSADLKRAQKDKGLHVEVRVNREWYTGRV
TAVEVGKHVVRWKVKFDYVPTDTPRDRWVEKGSSEVRLMKPPSPEHQSLDTQQEGGEEVGPVQAIAVAEPS
TSECLRIEPTTALSTNHETIDLLVQILRNCLRYFLPPSFPISKQQLSAMNSDELISFPLKEYFKQYEVGLQNL
NSYQSRADSRKASEESLRTSERKLRETEEKLOKLRTNIVALLOKVQEDIDINTDDELDAYIEDLITKGD

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FIGURE 6007

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTCGGGTCCCCGAAAGAGCTAAGCCGAGCCTGCGCCGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGG
ACGAGGCCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAAGTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCCAGTGCCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCAGCCACCCAAGACCACAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGCCCCCAAAGAGACCCCTGCTGCCAGAGCC
CCACCAGAGGCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCCTGCCAACGCTCCCTGTCCGTGC
TCAGCCCCCGCAACAGCCCAAGACCGAGAGTCCACCCCTTGGCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCGCAAGGCTCCTGGGCCCCCTCCCTCACCAGCACCCACCCCTGCCTCCTCT
CCAGCGGCTCCTCCTCTCGGGGCCCAGTGATACCTCCTCCCGTTTACGAAGGAGCAACGAGGAGTAGCCAGC
CCCTGGCCAGCTTCAAGCTGCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGGCTGCTAGGCCCCCTGAAA
ACAGAGCAGGGGGGCTGTGGCACGTTACAGAGGAGCTGGTGCCCCGCTGCCCGTGGCCGTCGGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCCTACTCAGCACCAGTA
GTGGGGGAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCCCTGGCTCGGCTGGGCACTGCTCACTCATGTCA
CCAGCTTACGCTATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCACGGACTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCAGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGACACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCGCACCACCACAGTGGAGTGCAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGACCA
TGATGCAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCCGAGGACCAGG
CCAGCCACGGGGCCGAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGCGC
AGAGTCTGCCAAGACCTCAGCCTCCCAGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAAGACTCGCGGCTACGAGCACGTGACATCCAGAACTTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGACAACCTTCTTCCCTGAGGCCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCGACGCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGATGCTGGTGGACTGTGTGCCCTGGTGG
AGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTATGTGCAGTCGCTCTACA
ACCACCTGCGACGCCACGAAGTGCAGCTGCGCGGCAAGAATGTCTAGCCTGCCCCCGCCGATGCCAGCCAGTGG
CAAGCTGCCGCCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCCCACCGCTGCCCTGTCTGTTGCGAC
ACCCTCCCCCCCACATACACAGCAGCGTTTTGATAAATTATTGGTTTTCAACG

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FIGURE 6008

MADEALAGLDEGALRKLLLEVTAADLAERRRIRSAIRELQRQELEREEEEALASKRFRRAERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNNGSREDSKGLAA
HRLEQCEVPEREEQEQQAQEVSKPTPTPEGTSQDVTTVTLLLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQC
LTAEVPGSPEPPPSPPKTTSPPEQESPTLPSTEGQVNVNLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQRSI
SVLSRQPAQNRESTPLASGPSSFQAGSVRDRVHKFTSDSPMAARLQDGTQAALSPLTPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFSKEQRGVAQPLAQLRSCPQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTFSHAPPSSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRKRQDQDKERERRLQEARGRPGEGRGNTATETTTTRHSQRAADGSAVSTVTKTERLVHS
NDGTRTARTTTVESSFVRRSENGSGSTMQTTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKQAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFQVNPANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFFPEAFDYQLSPQNRQNFVAFSSAEMLVDCVPLVEVDDMMIMGKKPDPKCVFTYVQS
LYNHLRRHELRLRGKNV

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FIGURE 6009

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTCGGGTCCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGG
ACGAGGCCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAACTGGCTGCACTCTCAGCAGCGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCCAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCGACCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCAGCCACCCAAGACCACCAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCAGAGCC
CCACCAGAGGCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCCTGCCAACGCTCCCTGTCCGTGC
TCAGCCCCCGCCAACCAGCCAGAACCGAGAGTCCACCCCTTGGCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCGCAAGGCTCCTGGGCCCCCTCCCTCACCAGCACACCCCTGCCTCCTCCT
CCAGCGGCTCCTCCTCTCGGGGCCCCAGTGATACCTCCTCCCGGTTACGCAAGGAGCAACGAGGAGTAGCCAGC
CCCTGGCCAGCTTCGAAGCTGCCCCAGGAGGAGGGCCCCAGGGGCGGGGCTTGGCTGTAGGCCCTTGAA
ACAGAGCAGGGGGGCTGTGGCACGTTTACAGAGGAGCTGGTGGCCCGCTGCCCGTGGCGCTCGGCAGTCCCGAGC
CAGGGGGCAGTATGAAGACCACATTCACCATCGAGATCAAGGACGGCCGTGGCCAGGCCCTCCACAGGCCGGGTGC
TGCTGCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCCTACTCAGCACCAGTA
GTGGGGGCAAGAGCACCATCACCCTGTCAACAGCCCTGGGACCCTGGCTCGGCTGGGCAGTGTCACTCATGTCA
CCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGGACAAGATGCTGGATCAGAGCACGGACTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACCACGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTACGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCGCACCACCACAGTGGAGTCGAGTTTCTGTAGGCGCTCGGAGAATGGCAGTGGCAGCACCA
TGATGCAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCGAGGACCAGG
CCAGCCACAGGGCCGGCAGCCTGGCGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCAAGACCTCAGCCTCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAGACTCGCGGCTACGAGCACGTGACATCCAGAACTTCTCCTCCAGCT
GGAGTGATGGGATGGCTTCTGTGCCCTGGTGCACAACTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCGACGCCAGAACTTCGAGGTGGCCTTCTCATCTGCGGAGACCCATGCGGACTGCCCGCAGCTCCTGG
ATACAGAGGACATGGTGCAGCTTCGAGAGCCTGACTGGAAGTGCCTGTACACGTACATCCAGGAATTCTACCGCT
GTCTGGTCCAGAAGGGGCTGGTAAAAACCAAAAGTCTTAAACCCCTGCTCGGGGCCCCACGGATGCTGGTGGACT
GTGTGCCCTTGGTGGAGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTATG
TGCAGTCGCTCTACAACCACCTGCGACGCCACGAAGTGCCTGCGCGGCAAGAATGTCTAGCCTGCCCGCCCGC
ATGGCCAGCCAGTGGCAAGCTGCCGCCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCCCACCGTGC
CCTGTCTGTGCGACACCCCTCCCCCCCACATACACGCGAGCGTTTTGATAAATTATTGGTTTTCAACG

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FIGURE 6010

MADEALAGLDEGALRKLLLEVTAADLAERRRIRSAIRELQRQELEREEALASKRFRERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSRREDSKGLAA
HRLEQCEVPEREEQEQQAEVSKPTPTPEGTSQDVTTVTLRLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQC
LTAEVPGSPEPPPSPPKTTSPPEQESPTLPSTEGQVNVKLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQORSL
SVLSPRQPAQNRESTPLASGPSSFQRAGSVRDRVHKFTSDSPMAARLQDGTQAALSPLTPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFKEQRGVAQPLAQLRSCPQEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGSGMKTTFTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTFSHAPPSSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRQRDQDKERERRLQEARGRPGEGRGNTATETTRHSQRAADGSAVSTVTKTERLVHS
NDGTRTARTTTVESSFVRRSENGSGSTMOTKTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKRQAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFQVNPANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNEFFPEAFDYQLSPQNRQNFVAFSSAETHADCPQLDTEDMVRLREPDWKCVYTYIQEF
YRCLVQKGLVKTCKS

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FIGURE 6011

GCGGTGGCAGTTTGCCGCGGGTGTGTGAAGGGAGACAGTGTGGAGGCCACAGGGTACTCGCCACGATGAGCAGCA
CCTTAGCTAAGATCGCGGAGATAGAAGCAGAGATGGCTCGGACTCAAAGAACAAGGCCACAGCACACCACTTAG
GGCTGCTTAAGGCTCGTCTTGCTAAGCTTCGTCGAGAACTCATTACTCCAAAGGGTGGTGGTGGGAGGTCCAG
GAGAAGGTTTTGATGTGGCCAAGACAGGTGATGCTCGAATTGGATTTGTTGGTTTTCCATCTGTGGGGAAGTCAA
CACTGCTTAGTAACCTGGCAGGGGTATATTCTGAGGTGGCAGCCTATGAATTCATACTCTGACCACTGTGCCTG
GTGTCATCAGATACAAAGGTGCCAAGATCCAGCTCCTGGATCTCCAGGTATCATTGAAGGTGCCAAGGATGGGA
AAGGTAGAGGTGCTCAAGTCATTGCAGTGGCCCGAACCTGTAACTTGATCTTGATTGTTCTGGATGTCCTGAAAC
CTTTGGGACATAAGAAGATAATTGAAAATGAGCTGGAAGGCTTTGGCATTGCTTGAACAGCAAACCCCCCAACA
TTGGCTTTAAGAAGAAGGACAAGGGAGGCATTAATCTCACAGCCACTTGCCCCCAGAGTGAGCTGGATGCTGAAA
CTGTGAAGAGCATTCTGGCTGAATACAAGATTCATAATGCCGATGTGACTCTACGTAGTGATGCTACAGCTGATG
ACCTCATTGATGTGGTGGGAAGGAAACAGAGTTTATATCCCCTGTATCTATGTGTTAAATAAGATTGACCAAATCT
CCATTGAGGAATTGGATATCATCTATAAGGTGCCTCACTGTGTACCCATCTCTGCCCATCACCGCTGGAATTTTG
ATGACCTATTGGAAAAGATCTGGGACTATCTGAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTACCAG
ATTACACATCCCCAGTGGTGCTTCCTTACTCCAGGACCACAGTGGAGGATTTCTGCATGAAGATTCACAAAAATC
TTATCAAAGAATTTAAATATGCTCTGGTCTGGGGTCTCTCTGTGAAACACAATCCTCAGAAAGTGGGTAAAGACC
ATACGTTGGAGGATGAGGATGTCATTCAAATTGTGAAGAAGTGAACCTTTCCCTTTTCCCATCTGCCGGACGAA
CCACAACAGCGTTCCCCATGATCAAGCACCTACCCAGTTCTTCTGGTTTTGGCAGTCACTGGATCAGGATCC
AGGGGAGGGAGATGGAGGCACCCAACTGGAACCTCATTGTCTTACCTTGGTGTACCTTGTATGTGGAACCTGC
ATAAAAGATCTGGTAGGCTGGTCAGCTACATGC

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FIGURE 6012

MSSTLAKIAEIEAEMARTQKNKATAHHLGLLKARLAKLRRELITPKGGGGGPGEGFDVAKTGDARIGFVGFPSPV
GKSTLLSNLAGVYSEVAAYEFTTLTTVPGVIRYKAKIQLLDLPGIIEGAKDGKGRGRQVIAVARTCNLILIVLD
VLKPLGHKKIIEENELEGFGIRLNSKPPNIGFKKKDKGGINLTATCPQSEDAETVKSILA EYKIH NADVTLRSDA
TADDLIDVVEGNRVYIPCIYVLNKIDQISIEELDIYKVPHCVPI SAHHRWNFDLLEKIWDYKLVRIYTKPKG
QLPDYTSPPVLPYSRTTVEDFCMKIHKNLIKEFKYALVWGLSVKHNPQKVGKDHTLEDEDVIQIVKK

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FIGURE 6013

GTGAGCGGAGCCGGCGCCCCGGCCCTGCCGGGAGCCCCAGGTGACTTCTCAGGGAGGCGCCCCACCCTGCCCGCT
CAGAGGGCCAGTGCCGGGTGGGGGTGCCCTTCTAGGGCCTTCGGTCGCAGGTGGGCTCTCCCAGCTGTGACGACG
CGCCCCCGGCCTGAGGAGCCCCGCGGACAAGGTTGAGCGAGTCGTGGGCTTTTTTCCGTCCCCACGTGGGCACG
GCCCCGGCTGCGTGAGCTCACTTCCTCCACATCTTATCTCCTGCCGGGCGCGGGCGCTTCCCATCAGACAGCAGG
AGCCAGTTCTCAGGGTCCTTGGCTGAACACACAAGCTGCAAAGCTACATATACTCCGGCAGAGCTGGCTGCGGGC
TGCAGACTGCAGGGCCGGTCACCTCCGCGCAAGTTGGGTTCTGTTTAGAACTGCCACCTAAGCCCCCTTATT
TCATCTTTCCTGTGGTGGAACCCCTGCCCCACCGGAGTGTGAGGTTGACTTTTTGGAAAGAGAGCCCTGACCC
TCTATTCTGCACCCTGTGAGCCACCGAGACTGAACCAAACCCAGGAAGCGGCGCCACCAACCAGCCTCGCAGAGG
CAGAGGCCCTGGAGCAGTGACAGCACAGGAGATCTGCTGGCTCGGGGAAGGGGA

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FIGURE 6014

CTCTTTTACCAAGGACCCGCCAACATGTGCCGCGTTTGCACCAAACCGTGAAGAAGGCGGCCCGGGTCATCATA
GAAAAGTACTACACACGCCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCAAGGAGATCGCCATTATCCCC
AGCAAGAAGCTCCGCAACAAGATAGCAGGCTATGTCACGCATCTGATGAAATGGATTTCAGAGAGGCCCCAGTAAGA
GGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAAGGAGAGACAATTATGTTCTGAGGTCTCAGCCTTGGAT
CAGGAGATAATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCTG
CAGGTCACTCAGCCTACAGTTGGGATGAACTTCAAATGCCTCGGGGACCTGTTGAATTTTTCTGCAGTGCTG
TATTATTTTCAATAAATCTGGCACAACAGC

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FIGURE 6015

GCTCTGAGAAGCCGGACTACGCGGCAGCGGCTCTTCAAAGCGGAGCCGGGAGTTTTTGCTACAGTTTTCGCCACC
ATGAGTCGCAGCTATAATGATGAGCTGCAGTTCTTGGAGAAGATCAATAAAAACTGCTGGAGGATCAAGAAGGGC
TTCGTGCCCAACATGCAGGTTGAAGGTGTTTTCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTA
AGGAATGCCTGTGAGGTGGTGGTGTGGTGGCTTCCTGCCAGCCATGAAACAGATTGGCAATGTGGCAGCCCTG
CCTGGAATTGTTTCATCGATCTATTGGGCTTCCTGATGTCCATTAGGATATGGGTTTGCTATTGGGAACATGGCA
GCCTTTGATATGAATGACCTGAAGCAGTAGTATCCCCAGGTGGTGTGCGGTTTGACATCAACTGTGGTGTCCGC
TTGCTAAGAACCAATTTAGATGAAAGTGATGTCCAGCCTGTGAAGGAGCAACTTGCCCAAGCTATGTTTGACCAC
ATTCTGTGGGGTGGGGTCAAAGGTGTCATCCCAATGAATGCCAAAGACTTGGAGGAGGCCTTGGAGATGGGG
GTGGACTGGTCTTAAGAGAAGGGTATGCCTGGGCTGAAGACAAGGAGCACTGCGAGGAGTACGGAAGGATGCTG
CAGGCTGACCCCAATAAAGTTCTGCAAGGGCGAAGAAAAGAGGCCTTCCTCAGTTGGGGACCCTGGGAGCAGGC
AACCATTATGCAGAAATCCAGGTTGTGGATGAGATTTTCAATGAGTATGCTGCTAAAAAATGGGCATCGACCAT
AAGGGACAGGTGTGTGTGATGATCCACAGTGGAGCAGAGGCTTGGGCCACCAAGTAGCCACAGATGCGCTGGTA
GCTATGGAGAAGGCCATGAAGAGAGACAAGATTATAGTCAATGATCGGCAGTTGGCTTGTGCTCGAATCGCTTCC
CCAGAGGGTCAAGACTATCTGAAGGGAATGGCAGCTGCTGGGAACTATGCCTGGGTCAACCGCTCTTCCATGACC
TTCTTAACCCGTCAGGCTTTGCCCAAGGTCTTCAACACAACCCCTGATGACTTGGACCTACATGTGATCTATGAT
GTTTCTCACAAACATTGCCAAAGTGGAGCAGCATGTGGTGGACGGAAGGAACGGACACTGTTAGTACACAGGAAG
GGATCCACCCGCGCTTTCCCTCCTCACCATCCCTCATTGCTGTTGATTACCAACTCACTGGACAGCCAGTGCTC
ATTGGTGGCACCATGGGAACCTGTAGTTATGTTCTTACTGGCACTGAACAGGGCATGACTGAGACCTTTGGAACA
ACCTGTGATGGAGCGGGCCGTGCATTGTCCCGAGCAAAATCTCGACGTAATTTAGATTTCCAGGATGTCTTAGAC
AAATTGGCAGATATGGGAATTGCGATCCGTGTGCCTCACCCAACTGGTTATGGAAGAGGCTCCTGAGTCCTAT
AAGAATGTGACAGATGTGGTAAATACCTGCCATGATGCTGGAAATCAGCAAGAAAGCCATTAACTGAGACCAATT
GCTGTGATCAAAGGATTAGAACCTTGGACAGCAGGGCTGCCTGACACCACCAACCTCTCTGAAGTGAAGTGGAC
TGACATGCTCTTCTGACATCAGACTCAAGGCGGGACAAGTTGCAAAGTGTGCAGCTGTAAGTGTGCTACGCCAAAA
TGGCTGATGGGGAGGCTGCTGCTTTAGGGGCGCGTGCTTGTAAAATAACCTTCCAGGAAGAGGCACATTGCCCA
CCTTTGGAAGGGGAGGAATATGCCTTCTCCTTGGTTGTTCCACAGAGTTTTAGGAAAATCTGTTAGGGATGGGTA
GATGTCAAACCTGCCTTACGCAGTCATACTGATCTTTAGCCATCAGATTGATCTTCTTACACCAAGCTCTGTTTA
CATTCCGAGAGGTGTCATGAAGAAAGTTCTGTTCAATAAGTTTTGGAATGTTTC

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FIGURE 6016

MSRSYNDELQFLEKINKNCWRIKKGFPNMQVEGVFYVNDALFKLMFEELRNACRGGGVGGFLPAMKQIGNVAAL
PGIVHRSIGLPDVHSGYGFAIGNMAAFDMNDPEAVVSPGGVGFDINCGVRLRLTNLDESDVPVKEQLAQAMFDH
IPVGVGSKGVIPMNAKDLEEALMGVDWSLREGYAWAEDKEHCCEYGRMLQADPNKVSARAKKRGLPQLGTLGAG
NHYAELQVVDIEIFNEYAAKKMGIDHKGQVCVMIHSGSRGLGHQVATDALVAMEKAMKRDKIIVNDRLACARIAS
PEGQDYLKGMAGNYAWVNRSSMTFLTRQAFKVFNTTPDDLHLHVIYDVSHNIAKVEQHVVVGKERTLLVHRK
GSTRAPPPHPLIAVDYQLTGQPVLIIGGTMGTC SYVLTGTEQGMTETFGTTCHGAGRALSRAKSRRLDFQDVLD
KLADMGIARVASPKLVMEAPESYKNVTDVVNTCHDAGISKKAIKLRPIAVIKG

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FIGURE 6017

CCCCGAGAGGCCCGGTTCCCTTAGGCCGCTGCCCGCTCCAGCTCTCGGGGTCGGCTCTAGGAGGCCCGCTCAG
GAGAGGGGGCGGCGCTCTATTCCAGAGACCGAGTGGCAGGGCGGCCACTGTGGCGGGGCTCTTTCCCGGTTTCGC
CTCAGCTACCCCTCAGCTCCGGTAGTCGCCAGTCCGGGGTCGTGCCGCTTTGGGGCGGGAGCTGCTCGGCCCCGC
CGCCGTCGCCGCTTCCGGGTCCAGGCCCTCGGGCCGCTGCCGCCGTCATGAGGCTGCGGGTGCGGGT
TCTGAAGCGGACCTGGCCGCTGGAGGTGCCCGAGACGGAGCCGACGCTGGGGCATTTCGCTCGCACCTGAGGCA
GTCCCTGCTGTGCACCTGGGGGTACAGTTCTAATACCCGATTTACAATTACATTGAACTACAAGGATCCCCTCAC
TGGAGATGAAGAGACCTTGGCTTCATATGGGATTGTTTCTGGGGACTTGATATGTTTGATTCTTCAAGATGACAT
TCCAGCGCCTAATATACCTTCATCCACAGATTAGAGCATTCTTCACTCCAGAATAATGAGCAACCCCTCTTTGGC
CACCAGCTCCAATCAGACTAGCATACAGGATGAACAACCAAGTGATTTCATTCCAAGGACAGGCAGCCAGCTCTGG
TGTTTGGAATGACGACAGTATGTTAGGGCCTAGTCAAATTTTGAAGCTGAGTCAATTCAAGATAATGCGCATAT
GGCAGAGGGCACAGGTTTCTATCCCTCAGAACCCATGCTCTGTAGTGAATCGGTGGAAGGGCAAGTGCCACATTC
ATTAGAGACCTTGATCAATCAGCTGACTGTTCTGATGCCAATGATGCCTTGATAGTGTGATACATCTTCTCAT
GTTGGAGTCAGGTTACATACCTCAGGGCACCGAAGCCAAAGCACTGTCCATGCCGGAGAAGTGGAAGTTGAGCGG
GGTGATAAGCTGCAGTACATGCATCCTCTCTGCGAGGGCAGCTCCGCTACTCTCACCTGTGTGCCTTTGGGAAA
CCTGATTGTTGTAATGCTACACTAAAAATCAACAATGAGATTAGAAGTGTGAAAAGATTGCAGCTGCTACCAGA
ATCTTTTATTTGCAAAGAGAACTAGGGGAAAATGTAGCCAACATATACAAAGATCTTCAGAACTCTCTCGCCT
CTTTAAAGACCAGCTGGTGTATCCTCTTTTGGCTTTTACCCGACAAGCACTGAACCTACCAGATGTATTTGGGT
GGTCGTCTCCATTGGAAGTGAAGTACGGATCTTCCGACTTCTGGATGTTCGTTCCGTCTTGTCTTTGTCTGC
GGTTTGTCTGACCTCTTTACTGCTTCAAATGACCCACTCCTGTGGAGGTTTTTATATCTGCGTGATTTTCGAGA
CAATACTGTCAGAGTTCAAGACACAGATTGGAAAGAACTGTACAGGAAGAGGCACATACAAAGAAAAGAATCCCC
GAAAGGGCGGTTTGTGATGCTCCTGCCATCGTCAACTCACACCATTCCATTCTATCCCAACCCCTTGACCCCTAG
GCCATTTCTAGCTCCCGCCTTCCCTCAGGAATTATCGGGGGTGAATATGACCAAAGACCAACACTTCCCTATGT
TGGAGACCCAATCAGTTCATCTCATTCTGGTCTTGGGAGACGCCCAGCCAGTTTCTCCACTGAGACCACGCTT
TGATCCAGTTGGCCCACTTCCAGGACCTAACCCCATCTTGCCAGGGCGAGGCGGCCCAATGACAGATTTCCCTT
TAGACCCAGCAGGGGTGGGCCAACTGATGGCCGGCTGTCAATTCATGTGATTGATTTGTAATTTCAATTTCTGGAGC
TCCATTTGTTTTTGTCTAAACTACAGATGTCAACTCCTTGGGGTGCTGATCTCGAGTGTTATTTTCTGATTGT
GGTGTGAGAGTTGCACTCCCAGAAACCTTTTAAAGAGATACATTTATAGCCCTAGGGGTGGTATGACCCAAAGGT
TCCTCTGTGACAAGGTTGGCCTTGGGAATAGTTGGCTGCCAATCTCCCTGCTCTTGTTCTCCTCTAGATTGAAG
TTTGTCTCTGATGCTGTTCTTACCAGATTAAAAAAAGTGTAATTAATAAAAAAAAAAAAAAAAAA

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FIGURE 6018

MRLRVRLKRTWPLEVPETEPTLGHLRSHLRQSLLCTWGYSSNTRFTITLNYKDPLTGDEETLASYGIVSGDLIC
LILQDDIPAPNIPSSDSEHSSLQNNQPSLATSSNQTISIQDEQPSDSFQGQAAQSGVWDDSM LGPSQNFEAES
IQDNAHMAEGTGFPSEPMLCSESVEGQVPHSLETLYQSADCS DANDALIVLIHLLMLESYIPQGTEAKALSMP
EKWKLSGVYKLQYMHPLCEGSSATLTCVPLGNLIVVNATLKINNEIRSVKRLQLLPESFICKEKLGENVANIYKD
LQKLSRLFKDQLVYPLLAFTRQALNLPDVFGLVVLPLELKLRIFRLLDVRSVLSLSAVCRDLFTASNDPLLWRF
YLRDFRDNTVRVQD TDWKELYRKRHIQRKESPKGRFVMLLPSSHTIPFYPNPLHPRFPFSSRLPPGIIGGEYDQ
RPTLPYVGDPISSLIPGPGETPSQFPPLRPRFDPVGPLPGPNPILPGRGGPNDRFPFRPSRGRPTDGRLSFM

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FIGURE 6019A

CTTGCCCCAGAGCTGATCCTTGTCTTTGTCCACTTCTCAGCGAGGATGGCACTTCAGGGAGCCCTTCCCTTACTA
TCGCAGAGAGAGCAGGCCCTCCCCAGTCATGTCCAACCCAGAACTCTGTTTTGTTTTCTTCATAGCCCTAGCATC
ACAGAAAATCACCCCTGTGCATTTCATGGATGTCCACGGGGGCAAGGGCTTTGTGTTGCTTAACCCAGCATCCTGAA
CCGTGTTTTGTTGAATGAATACAGAACCCCGTTTGTCTGGGAGAGCACAGAAAACAGTCTTCTATCATATATCAT
AGCCAGCTGCAAAACAGCAGATGGCTTCCCATATCCAGAGAGTAAGAACCAGAGAGAGAGAGAAAGAGAGAGAGT
TTGGGTCTTTCTCCTCTGTGCCTGCTCTCTCCAGAGAACTGGAGGGGTAGCAGTTAGCATTCCCCCGCTGGTTC
CACCAAGCACAGTCAAGGTCTCTAGGACATGGCCACCCCTCACCTGTGGAAGCGGTCTGCTGGGGTGGGTGGGT
GTTAGTTGGTTCTGGTTTGGGTCAGAGACACCCAGTGGCCCAGGTGGGCGTGGGGCCAGGGCGCAGACGAGAAGG
GGCAGAGGGCTCCGCTCCGAGGACCCAGCGGCAAGCACCGGTCCCGGGCGCGCCCCAGCCACCCACTCGCGTG
CCCACGGCGGCATTATTCCCTATAAGGATCTGAACGATCCGGGGGCGGCCCCGCCCGTTACCCCTTGCCCCGG
CCCCGCCCCCTTTTGGAGGGCCGATGAGGTAATGCGGCTCTGCCATTGGTCTGAGGGGCGGGCCCCAACAGCC
CGAGGCGGGGTCCCCGGGGGCCAGCGCTATATCACTCGGCCGCCAGGCAGCGGCGCAGAGCGGGCAGCAGGCA
GGCGGCGGGGCTCAGACGGCTTCTCCTCCTCTCTGCTCCTCCAGTCTCTGCTCCTTCGCCGGGAGGCCGCC
GCCGAGTCTCGGCCAGCGCCGAGGCAGCCTCGCTCGCCCCATCCCGTCCCGCGGGGCACTCGGAGGGCAGCGC
GCCGGAGGCCAAGGTTGCCCGCACGGCCCCGGCGGGCGAGCGAGCTCGGGCTGCAGCAGCCCCGCCGGCGCGCG
CACGGCAACTTTGGAGAGGCGAGCAGCAGCCCCGGCAGCGGCGGCAGCAGCGGCAATGACCCCTTGGCTCGGGCT
CATCGTGCTCCTGGGCAGCTGGAGCCTGGGGGACTGGGGCGCCAGGCGTGCACATGCTCGCCAGCCACCCCCA
GGACGCCTTCTGCAACTCCGACATCGTGATCCGGGCCAAGGTGGTGGGGAAGAAGCTGGTAAAGGAGGGGCCCTT
CGGCACGCTGGTCTACACCATCAAGCAGATGAAGATGTACCGAGGCTTCACCAAGATGCCCATGTGCAGTACAT
CCATACGGAAGCTTCCGAGAGTCTCTGTGCCCTTAAGCTGGAGGTCAACAAGTACCAGTACCTGCTGACAGGTGCG
CGTCTATGATGGCAAGATGTACACGGGGCTGTGCAACTTCGTGGAGAGGTGGGACCAGCTCACCTCTCCCAGCG
CAAGGGGCTGAACATATCGGTATCACCTGGGTTGTAACGTGCAAGATCAAGTCTGCTACTACCTGCCTTGCTTTGT
GACTTCCAAGAACGAGTGTCTCTGGACCGACATGCTCTCCAATTTTCGGTTACCTTGGCTACCAGTCCAAACCTA
CGCTGCATCCGGCAGAAGGGCGGCTACTGCAGCTGTTACCGAGGATGGGCCCCCGGATAAAAGCATCATCAA
TGCCACAGACCCCTGAGCGCCAGACCTGCCCCACCTCACTTCCCTCCCTTCCCGCTGAGCTTCCCTTGGACACT
AACTCTTCCCAGATGATGACAATGAAATTAGTGCCTGTTTTCTTGCAAATTTAGCACTTGGAAACATTTAAAGAAA
GGTCTATGCTGTCTATATGGGGTTTATTGGGAATATCCTCCTGGCCCCACCCTGCCCCCTCTTTTTGGTTTTGAC
ATCATTCATTTCCACCTGGGAATTTCTGGTGCCATGCCAGAAAGAATGAGGAACCTGTATTCTCTTCTTCGTGA
TAATATAATCTCTATTTTTTTAGGAAAACAAAATGAAAACTACTCCATTTGAGGATTGTAATCCCACCCCTC
TTGCTTCTTCCCCACCTCACCATCTCCCAGACCTCTTCCCTTTGCCCTTCTCCTCCAATACATAAAGGACACAG
ACAAGGAACCTTGCTGAAAGGCCAACCATTTCAGGATCAGTCAAAGGCAGCAAGCAGATAGACTCAAGGTGTGTGA
AAGATGTTATACACCAGGAGCTGCCACTGCATGTCCCAACCAGACTGTGTCTGTCTGTCTGCATGTAAGAGTG
AGGGAGGGAAGGAAGGAACTACAAGAGAGTCGGAGATGATGCAGCACACACAATTCCCCAGCCCAGTGATGCT
TGTGTTGACCAGATGTTCTGAGTCTGGAGCAAGCACCCAGGCCAGAATAACAGAGCTTTCTTAGTTGGTGAAGA
CTTAAACATCTGCCTGAGGTGAGGAGGCAATTTGCCTGCCTTGTAACAAGCTCAGGTGAAAGACTGAGATGAAT
GTCTTTCTCTCCTGCTCCACACAGACTTCTCCTGGAAAACGCTTTGGTAGATTGGCCAGGAGCTTTCTTT
TATGTAAATTGGATAAATACACACACCATACTATCCACAGATATAGCCAAGTAGATTGGGTAGAGGATACTA
TTTCCAGAATAGTGTTTAGCTCACCTAGGGGGATATGTTTGATACACATTTGCATATACCACATGGGGACATA
AGCTAATTTTTTTACAGGACACAGAATTCTGTTCAATGCTGTTAAATATGCCAATAGTTTAATCTCTTCTATTTT
GTTGTCGTTGCTTTGTTTGAAGAAAATCATGACATTCCAAGTTGACATTTTTTTTTTTCATTTTAAATTTGAA
ATTCTGAACACCGTCAGCACCCCTCTCTTCCCTATCATGGGTCTATGACCCCTGTCCGTCTCCTGTCCCTGCTT
CAIGTTTGGGGGCCCTTTCTTTAACTGCCTTCTGCTGCTAGCTCAGATGGCAGATGAGAGTGTAGTCAAGGGCCTG
GGCACAGGAGGGAGAGCTGCAGAGTGTCTGCCTGCCTTGGCTGGAGGGACACCTCTCCTGGGTGTGGAGACAGC
TTGGTTCCCTTTCCCTAGCTCCCTGGTGGGTGAATGCCACCTCCTGAGATCCTCACCTCTTGGAAATTAATTTGT
TGGTCACTGGGGAAAGCCTGAGTTTGCAACCAAGTTGTAGGGTTCTGTTGTGTTTTTTTTTTTTTTTGAATA
AAACTATAATATAAATTTCTCTATTAAATAAAATTTATTTAAGTTTTAGTGTCAAAGTGAGATGCTGAGAGTAG
GTGATAATGTATATTTTACAGAGTGGGGGTTGGCAGGATGGTGACATTGAACATGATTGCTCTCTGTCTCTTTT
TCAGCTTATGGGTATTTATCTTCTATTAGTATTTGTATCTTCAGTTTCAATCCACTTTAGGAAACAGAGCTGCCAA

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FIGURE 6019B

TTGAAACAGAAGAAGAAAAAAGCAGCAGACAACACACTGTAGAGTCTTGACACACACAAGTGCCCAG
GCAAGGTGCTTGGCAGAACCGCAGAGTGGGAAGAGAGTACCGGCATCGGGTTTCCTTGGGATCAATTTTCATTACC
GTGTACCTTTCCCATTTGTGGTCATGCCATTTGGCAGGGGAGAATGGGAGGCTTGGCCTTCTTTGTGAGGCAGTG
TGAGCAGAAGCTGATGCCAGCATGTCACTGGTTTTGAAGGGATGAGCCAGACTTGATGTTTTGGGATTGTCTT
ATTTTAACCTCAAGGTCTCGCATGGTGGGGCCCTGACCAACCTACACAAGTTCCCTCCACAAGTGACATCAG
TGTCTTCTCTGTGAGGCATCTGGCCATTGCACTCCCTGGTGTGGTCAGCCTCTCTCACACAAGGAGGAACCTGG
GTGAAGGCTGAGTGTGAGGCACCTGAAGTTTCCCTGCGGAGTCGATAAATTAGCAGAACCATCCCCATCTGTT
AGGCCTTGGTGAGGAGGCCCTGGGCAAAGAAGGTCTTTCGCAAAGCGATGTCAGAGGGCGGTTTTGAGCTTTCT
ATAAGCTATAGCTTTGTTTATTTACCCGTTCACTTACTGTATAATTTAAATCATTATGTAGCTGAGACACTT
CTGTATTTCAATCATATCATGAACATTTTATTTTGCTAAATCTTGTGTCATGTGTAGGCTGTAATATGTGTACAT
TGTGTTTAAGAGAAAAATGAAACCCACATGCCGCCATTTTCCTGAATCAAATTCGTCAGTGGAATGGAGAGGAAA
ATACTTCTAGGCAAGCAGCTAGACTGGTGAATTGGGGGAAATAGAAGGAAGTAACTGAGACTCCTCCAGCCT
CCTCCCTATTGGAATCCCAATGGCTCCTGGAGTAGGAAAAAAGTTTAACTACATTGATGTTCTTGTTCGTGTC
ACTCGGCCCTGGGTAGTCTACCATTTACTTCACCCCAAGTCCTGCTGCCCATCCAGTTGGGAAGCCATGATTTTC
CTAAGAATCCAGGGCCATGGGAGATACAATTCCAAGTTCTCGCTTCTCCTTTGGGCATCTCTTCTGCCTCCCAA
TCAAGGAAGCTCCATGCTCAGGCTCTCAGCTCTCGGGCCAGTGCTCTGCTCTGTCCAGGGTAGGTAATACTGGGA
GACTCCTGTCTTTTACCCTCCCTCGTTCCAGACCTGCCTCATGGTGGCAACATGGTTCTTGAACAATTAAAGAA
ACAAATGACTTTTTTGAATAGCCCTGTCTAGGGCAAAGTGTGGCCCCAGGAGACACTACCCTTCCATGCCCCAG
ACCTCTGTCTTGCATGTGACAATTGACAATCTGGACTACCCCAAGATGGCACCCAAGTGTGTTGGCTTCTGGCTAC
CTAAGGTTAACATGTCACTAGAGTATTTTATGAGAGACAAACATTATAAAAATCTGATGGCAAAAGCAAAACAA
AATGGAAAGTAGGGGAGGTGGATGTGACAACAACCTCCAAATTGGCTCTTTGGAGGCGAGAGGAAGGGGAGAACT
TGGAGAATAGTTTTTGCTTTGGGGGTAGAGGCTTCTTAGATTCTCCAGCATCCGCCTTTCCCTTTAGCCAGTCT
GCTGTCCTGAAACCCAGAAGTGATGGAGAGAAACCAACAAGAGATCTCGAACCTGTCTAGAAGGAATGTATTTG
TTGCTAAATTTCTGAGCACTGTTTACAGTTTTTCCCTCATGTTATTTATGAATTTTATATTCCGTGAATGTATATT
GTCTTGTAATGTTGCATAATGTTCACTTTTTATAGTGTGTCCTTTATTCTAAACAGTAAAGTGTTTTATTCTA
TCAC

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FIGURE 6020

TCAACGCCTGCCTCCCCCTCGAGCGTCCTCAGCGCAGCCGCCGCCCGGGAGCCAGCACGAACGAGCCCAGCACCG
GCCGGATGGAGCGTCCGCAACCCGACAGCATGCCCCAGGATTTGTCTAGAGGCCCTGAAGGAGGCCACCAAGGAGG
TGCACACCCAGGCAGAGAATGCTGAGTTCATGAGGAACCTTTAGAAAGGGCCAGGTGACCCGAGACGGCTTCAAGC
TGGTGATGGCCTCCCTGTACCACATCTATGTGGCCCTGGAGGAGGAGATTGAGCGCAACAAGGAGAGCCCAGTCT
TCGCCCCGTGTCTACTTCCCAGAAGAGCTGCACCGCAAGGCTGCCCTGGAGCAGGACCTGGCCTTCTGGTACGGGC
CCCCGTGGCAGGAGGTCAATCCCTACACACCAGCCATGCAGCGCTATGTGAAGCGGCTCCACGAGGTGGGGCGCA
CAGAGCCCCGAGCTGCTGGTGGCCACGCCTACACCCGCTACCTGGGTGACCTGTCTGGGGGCCAGGTGCTCAAAA
AGATTGCCCAGAAAGCCCTGGACCTGCCCAGCTCTGGCGAGGGCCTGGCCTTCTTACCTTCCCCAACATTGCCA
GTGCCACCAAGTTCAAGCAGCTCTACCGCTCCCGCATGAACCTCCCTGGAGATGACTCCCGCAGTCAGGCAGAGGG
TGATAGAAGAGGCCAAGACTGCGTTCCTGCTCAACATCCAGCTCTTTGAGGAGTTGCAGGAGCTGCTGACCCATG
ACACCAAGGACCAGAGCCCCCTCACGGGCACAGGGCTTCGCCAGCGGGCCAGCAACAAAGTGCAAGATTCTGCCC
CCGTGGAGACTCCAGAGGGAAGCCCCACTCAACACCCGCTCCAGGCTCCGCTTCTCCGATGGGTCTTACAC
TCAGCTTTCTGGTGGCGACAGTTGCTGTAGGGCTTTATGCCATGTGAATGCAGGCATGCTGGCTCCCAGGGCCAT
GAACTTTGTCCGGTGAAGGCCCTTCTTCTAGAGAGGGAATTCTCTTGCTGGCTTCCTTACCGTGGGCACTGAA
GGCTTTCAGGGCCTCCAGCCCTCTCACTGTGTCCCTCTCTTGAAAGGAGGAAGGAGCCTATGGCATCTTCCCC
AACGAAAAGCACATCCAGGCAATGGCTAAACTTCAGAGGGGGCGAAGGGGTGAGCCCTGCCCTTCAGCATCCTC
AGTTCCTGCAGCAGAGCCTGGAAGACACCTAATGTGCGAGCTGTCTCAAACCTCCAAAAGCCCTGAGTTTCAAG
TATCCTTGTTGACACGGCCATGACCACTTTCCCCGTGGGCCATGGCAATTTTACACAAACCTGAAAAGATGTTG
TGTCTTGTTGTTTTGTCTTATTTTTGTGGAGCCACTCTGTTCTGGCTCAGCCTCAAATGCAGTATTTTTGTG
TGTCTGTTGTTTTATAGCAGGGTTGGGTGGTTTTTGAGCCATGCGTGGGTGGGAGGGAGGTGTTTAACGGC
ACTGTGGCCTTGGTCTAACTTTTGTGTGAAATAATAACAACATTGTCTG

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FIGURE 6021

MERPQPD SMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVALEEEIERNKESPVFA
PVYFPEELHRKAAL EQDLAFWYGPRWQEVIPYTPAMQRYVKRLHEVGRTEPELLVAHAYTRYLGDLSSGGQVLKKI
AQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMNSLEMTPAVRQRVIEEAKTAFLLNIQLFEELQELLTHDT
KDQSPSRAPGLRQRASNKVQDSAPVETPRGKPP LNTRSQA PLLRWVLTLSFLVATVAVGLYAM

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FIGURE 6022

TTTTCCCGCGAAACTCGGCGGCTGAGCGTGGAGGTTCTTGTCTCCCTGGTTTGTGAAGTGC GGAAAACAGAGG
CGCATC**ATG**TCGGGATTTCGACGATCCTGGCATTCTTCTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGA
GGGGCAGGCCCGCAAATCGCAGCTGCAGAGGCGCTTCAAGGAGTTCTTGC GGCGAGTACCGAGTGGGCACCGACCG
CACGGGCTTCACCTTCAAATACAGGGATGAACCTCAAGCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGA
GATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGCCGACTACTTGTACAAGCAGCCAGCCGAGCACCTGCAGCT
GCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGTGACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGA
CATCCAGGTATGCTCAAGTCGGACGCCAGCCCTTCCAGCATTTCGTAGCCTGAAGTCGGACATGATGTCACACCT
GGTGAAGATCCCTGGCATCATCATCGCGGCCTCTGCGGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCG
CAGCTGCCGCAACACCCCTACCAACATTGCCATGCGCCCTGGCCTCGAGGGCTATGCCCTGCCCAGGAAGTGCAA
CACAGATCAGGCTGGGCGCCCCAAATGCCCCATTGGACCCGTA CTTCATCATGCCCGACAAATGCAAATGCGTGGA
CTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGCAGTCCCCACGGGGAGATGCCCAGACACATGCAGCTCTA
CTGCGCAGAGGTACCTGTGTGACAAGTTCGTCCCTGGGAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAA
GTTTGGCCTGACTACCAGCAGGGGCCGTGACAGGGTGGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTCTGGG
CATCCAGGTGGACACAGATGGCTCTGGCCGCAGCTTTGCTGGGGCCGTGAGCCCCAGGAGGAGGAGGAGTTCCG
TCGCTGGCTGCCCTCCCAAATGTCTATGAGGTATCTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCACAGA
CATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGGGCTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGG
AGACATCAACCTGTGTATGCTAGGGGACCTGGGACAGCCAAGTCCCAGCTTCTGAAGTTTGTGGAGAAGTGTTC
TCCCATTTGGGGTATACAGTCTGGGAAAGGCAGCAGCGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCCTC
GTCCCGGAATTTTCATCATGGAGGGCGGAGCCATGGTCCCTGGCCGATGGTGGGGTCGTCTGTATTGACGAGTTTGA
CAAGATGCGAGAAGATGACCGTGTGGCAATCCACGAAGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGG
GATCACCACCACCCTGAACCTCCCGCTGCTCCGTCTGGCTGCTGCCAACTCAGTGTTTCGGCCGCTGGGATGAGAC
GAAGGGGGAGGACAACATTGACTTCATGCCCCACCATCTTGTGCGGCTTCGACATGATCTTCATCGTCAAGGATGA
GCACAAATGAGGAGAGGGATGTGATGCTGGCCAAGCATGTATCACTCTGCACGTGAGCGCACTGACACAGACACA
GGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAAGAAGTTTATTGCCTACTGCCGAGTGAAGTGTGGCCCCCG
GCTGTGACGAGAGGCTGCAGAGAACTGAAGAACCGCTACATCATATGCGGAGCGGGGCCCGTCAGCACGAGAG
GGACAGTGACCGCCGCTCCAGCATCCCCATCACTGTGCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCT
CAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGCAGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCCAC
GTTGGATGCTGCCTTGTCCGGTACCCTGTGAGGGGTGGAGGGCTTACCAGCCAGGAGGACCAGGAGATGCTGAG
CCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCATTGGCTCCAGGTGTCTGAGCACAGCATCATCAAGGACTT
CACCAAACAGAAATACCCGGAGCAGCCATCCACAAGGTGCTGCAGCTCATGCTGCGGCGCGGCGAGATCCAGCA
TCGCATGCAGCGCAAGGTTCTCTACCGCCTCAAG**TCAG**TCGCGCCGCCTCACTGGACTCATGGACTCGCCCCACGC
CTCGCCCCCTCCTGCCGCTGCCTGCCATTGACAATGTTGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAACTT
CCCAGGCACCCCTCCTTTCTGCCCCAGAGGAAGGAGCTGTAGTGCCTGCTGCCTCTGGGCGCCCGCCTCTAGCGC
GGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAATAAAGCCACGGTGTGTTTCAGGT

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FIGURE 6023

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCPIDPYFIMPDKCKCVDFQ
TLKLQELPDAVPHGEMPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFFGGTDMKKAIACLLFGGSRKRLPDGLTRRGI
NLLMLGDPGTAKSQLLKFEKCSPIGVYTSKGSSAAGLTASVMRDPSSRNFIMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAGITTTLNSRCSVLAAANSVFGRWDETKGEDNIDFMPTILSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRRSSIPITVRQLEAIVRIAEALSKMKLQPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSRI
EKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAHKLVLQMLRRGEIQHRMQRKVLYRLK

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FIGURE 6024

GAGGTGCTGGGGAGCAGCGTGTGCTGTGCTTGATTGTGAGCTGCTGGGAAGTTGTGACTTTTCATTTTACCTTT
CGAATTCCCTGGGTATATCTTGGGGGCTGGAGGACGTGTCTGGTTATTATATAGGTGCACAGCTGGAGGTGAGATC
CACACAGCTCAGACCAGCTGGATCTTGCTCAGTCTCTGTGAGAGGAAGATCCCTTGAGGAGGGCCCCGAGCGAC
ATGGAGGGAGCTGCTTTGCTGAAAATCTTTGCTGCTGTCATCTGGGTGCAGCAAAACCATCCAGGCTGGACAGTG
GCTGGACAGTTCCAAGAAAAGAAACGCTTCCTGAAGAAGTCATTGAATACTTCCAGAAGAAAGTTAGCCCAGTG
CATCTGAAAATCCTGCTGACTAGCGATGAAGCCTGGAAGAGATTGTGCGTGTGGCTGAATTGCCAGGGAAGAG
GCAGATGCTCTCTATGAAGCTCTGAAGAATCTTACACCATATGTGGCTATTGAGGACAAAGACATGCAGCAAAAA
GAACAGCAGTTTAGGGAGTGGTTTTTGAAGTTTCTCAAATCAGATGGAAGATTCAGGAGTCCATAGAAAGGCT
TCGTGTCATTGCAAATGAGATTGAAAAGGTCCACAGAGGCTGCGTCATCGCCAATGTGGTGTCTGGCTCCACTGG
CATCTGTCTGTCAATTGGCGTTATGTTGGCACCATTACAGCAGGGCTGAGCCTGAGCATTACTGCAGCTGGGGT
AGGGCTGGGAATAGCATCTGCCACGGCTGGGATCGCTCCAGCATCGTGGAGAACACATACACAAGGTCAGCAGA
ACTCACAGCCAGCAGGCTGACTGCAACCAGCACTGACCAATTGGAGGCATTAAGGGACATTCTGCGTGACATCAC
ACCCAATGTGCTTTCTTTTGCACCTTGATTTTGACGAAGCCACAAAAATGATTGCGAATGATGTCCATACACTCAG
GAGATCTAAAGCCACTGTGGACGCCCTTTGATTGCTTGGCGATATGTACCTATAAATGTTGTTGAGACACTGAG
AACACGTGGGGCCCCACCCGGATAGTGAGAAAAGTAGCCCGGAACCTGGGCAAGGCCACTTCAGGTGTCTTGT
TGTGCTGGATGTAGTCAACCTTGTGCAAGACTCACTGGACTTGACACAAGGGGGCAAAATCCGAGTCTGCTGAGTC
GCTGAGGCAGTGGGCTCAGGAGCTGGAGGAGAATCTCAATGAGCTCACCATATCCATCAGAGTCTAAAAGCAGG
CTAGGCCCCAATTGTTGCGGAAGTCAGGGACCCAAACGGAGGGACTGGCTGAAGCCATGGCAGAAGAACGTGGA
TTGTGAAGATTCATGGACATTTATTAGTTCCCAAATTAATACTTTTATAATTCCTATGCCTGTCTTTACCGC
AATCTCTAAACAAAAATTGTAAGATTTTCATGGACACTGATCACTTCCCAATCAATACCCTTGTGATTCTTAT
GCCTGTCTTTACTTTAATCTCCTAATCCTGTGCTGAGCTGAGGAGGATGTATGTACCTCAGGACCATGTGATAATTG
CGTTAACTGCACAAATTGTAGAGCATGTGTGTTGAACAATATGAAATCTGGGCACCTGAAAAAAGAACAGGAT
AACAGCAATTGTTTCAGGGAATAAGAGAGATAACCTTAAACTCTGACCAACAGTGAGCCTGGTGGAACAGAGTCAT
ATTTCTCTTCTTCAAAGCAAATGGGAGAAATATCGCTGAATCTTTTTCTCAGCAAGGAACATCCCTGAGAAA
GAGAATGCACCCCTGAGGGTGGGTCTATAAATGGCCTCCTTGGGTGTGGCCATCTTCTATGGTCGAGACTGTAGG
GATGAAATAAACCCAGTCTCCCATAGCGCTCCAGGCTTATTAGGAAGAGGAAATCCCGCCTAATAAATTTG
GTCAGACCGTGTCTCTCAAACCTGTCTCCTGATAAGATGTTATCAATGACAATGGTGCCCGAAACCTCATT
GCAATTTTAATTTCTCCCGGTCTGTGTTCTGTGATCTCGCCCTGCCTCCACTTGCTTGTGATATTCTATTA
CCTTGTGAAGTAGGTGATCTTTGTGACCCACACCCACACCTATTATACACTCCCTCCCTTTTGAAGTCCCT
AATAAAAACCTTGCTGGTTTTGCGGCTTGTGAGGCATCACGGAACCTACCGATGTGTGATGTCTCCCTGGACACC
TAGCTTTAAATTTCTCTCTTTTGTACTCTGTGCCTTTATTTCTCAAACCGGCAACACTTAGGGAAAAATAGAAA
AGAACCTACGTACCATCGGGGCAGGTTCCCGATACCCAATGACCCAGAGCAGTGCAGCCACCAGGGAAGGTG
AGCCAGACACAGGCCGGGACAAAACGCAGACATTTTTAGGGGAATAAAGAGGGCGAGGTAAAGTTTATGGAAC
CAGTGTTAGGAACCTTTGGCATCTGTAGCTGAGCAGCAGGGGAGGGGTTACTCAAGATGGCAAGTGCGCCAAGG
AGAAGGCAGAAATGCTGGGGCTGGAATAAGGGAGGAGAGGGGACTGGAGAGTGTGGGGAATGGAAGAAGCAGT
TTACTCTAGACTAAAGAGTATATTGGGGGAGGAAGAGAGGGAGGCACGTAGGAACAAGCAATGAGAAGACCAGGA
AAAGAAAGAGCTGAAAATGGAGAAAGCCACAGTTAGAACTGTTGGATACAGGAGAAGAAACAGCGGCTCCACTAA
AGACCCGCCCCCGGTTGGATGTCTTCCAAGATGGAATCCTTCCCTGGTGATGGTCTCTACCCCTGTCTTACC
AGCATCCACTCTCCCTTGCTCTCCCGGGGTGTATCTGAGTCAGCCAGTGGCTTCTTGATGATGGTGGTGGTGGT
TGTAAGTGTGACAGGTCCCTTTAGGTTATTTAAGGGTGCATGTCCCTGCTTGAACCTGAAGGCCGGGTAATGA
GCCATTTCCATGGTGGCCAGCTGAGGACCAGGTGTCTCTGAGAATCCAAACATCCTGGAGAGTATCTGAGAACCA
ACCAAGTAAAAGTCTCGTTGCTCATATATAGTAGACAAAGAGCCAGAAAATTAAGTAAAAGCAGTTTAGACATT
GGGGGAGGCTGATCTCTCGAGCTGTCTTGTGAGTGCCCTGTGTGTAAGTCCTAATAAACTTAGCTACTCGCCA

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FIGURE 6025A

ATGGCACAGCAAGCTGCCGATAAGTATCTCTATGTGGATAAAAACTTCATCAACAATCCGCTGGCCCCAGGCCGAC
TGGGCTGCCAAGAAGCTGGTATGGGTGCCTTCCGACAAGAGTGGCTTTGAGCCAGCCAGCCTCAAGGAGGAGGTG
GGCGAAGAGGCCATCGTGGAGCTGGTGGAGAATGGGAAGAAGGTGAAGGTGAACAAGGATGACATCCAGAAGATG
AACCCGCCCAAGTTCTCCAAGGTGGAGGACATGGCAGAGCTCACGTGCCTCAACGAAGCCTCGGTGCTGCACAAC
CTCAAGGAGCGTTACTACTCAGGGCTCATCTACACCTATTTCAGGCCTGTTCTGTGTGGTTCATCAATCCTTACAAG
AACCTGCCCATCTACTCTGAAGAGATTGTGGAAATGTACAAGGGCAAGAAGAGGCACGAGATGCCCCCTCACATC
TATGCCATCACAGACACCGCCTACAGGAGTATGATGCAAGACCGAGAAGATCAATCCATCTTGTGCACTGGTGAA
TCTGGAGCTGGCAAGACGGAGAACACCAAGAAGGTTCATCCAGTATCTGGCGTACGTGGCGTCTCGCACAAAGAGC
AAGAAGGACCAGGGCGAGCTGGAGCGGCAGCTGCTGCAGGCCAACCCCATCCTGGAGGCCCTTCGGGAACGCCAAG
ACCGTGAAGAATGACAACCTCCTCCGCTTCGGCAAATTCATTTCGCATCAACTTTGATGTCAATGGCTACATTGTT
GGAGCCAACATTGAGACTTATCTTTTGGAGAAATCTCGTGTATCCGCCAAGCCAAGGAAGAACGGACCTTCCAC
ATCTTCTATTATCTCTGTCTGGGGCTGGAGAGCACCTGAAGACCGATCTCCTGTTGGAGCCGTACAACAAATAC
CGCTTCTGTCCAATGGACACGTACCATCCCCGGGCAGCAGGACAAGGACATGTTCCAGGAGACCATGGAGGCC
ATGAGGATTATGGGCATCCAGAAGAGGAGCAATGGGCCTGCTGCGGGTCATCTCAGGGGTTCTTCAGCTCGGC
AACATCGTCTTCAAGAAGGAGCGGAACACTGACCAGGCGTCCATGCCCGACAACACAGCTGCCAAAAGGTGTCC
CATCTCTTGGGTATCAATGTGACCGATTTCACCAGAGGAATCCTCACCCCGCGCATCAAGGTGGGACGGGATTAC
GTCCAGAAGGCGCAGACTAAAGAGCAGGCTGACTTTGCCATCGAGGCCCTGGCCAAGGCGACCTATGAGCGGATG
TTCCGCTGGCTGGTGTCTGCGCATCAACAAGGCTCTGGACAAGACCAAGAGGCAGGGCGCCTCCTTCATCGGGATC
CTGGACATTGCCGGCTTCGAGATCTTTGATCTGAACCTCGTTTGGAGAGCTGTGCATCAATTACACCAATGAGAAG
CTGCAGCAGCTCTTCAACCACACCATGTTTCATCCTGGAGCAGGAGGATACCAGCGCAGGGGCATCGAGTGGAAAC
TTTCATCGACTTTGGCCTCGACCTGCAGCCCTGCATCGACCTCATTGAGAAGCCAGCAGGCCCCCGGGCATTCTG
GCCCTGCTGGACGAGGAGTGTGTTTCCCCAAAGCCACCGACAAGAGCTTCGTGGAGAAGGTGATGCAGGAGCAG
GGCACCCACCCCAAGTTCCAGAAGCCCAAGCAGCTGAAGGACAAAGCTGATTCTGCATTATCCACTATGCCGGC
AAGGTGGATTACAAAGCTGACGAGTGGCTGATGAAGAACATGGATCCCTGAATGACAACATCGCCACACTGCTC
CACCAGTCTCTGACAAGTTTGTCTCGGAGCTGTGGAAGGATGTGGACCGCATCATCGGCTGGACCAGGTGGCC
GGCATGTGGAGACCGCACTGCCCGGGGCTTCAAGACGCGGAAGGGCATGTTCCGCACTGTGGGGCAGCTTTAC
AAGGAGCAGCTGGCCAAGCTGATGGCTACGCTGAGGAACACGAACCCCACTTTGTCCGCTGCATCATCCCCAAC
CACGAGAAGAAGGCCGGAAGCTGGACCCGCATCTCGTGTGGACAGCTGCGCTGCAACGGTGTCTCGAGGGC
ATCCGTATCTGCCGCCAGGGCTTCCCCAACAGGGTGGTCTTCCAGGAGTTTCGGCAGAGATATGAGATCCTGACT
CCAACTCCATTCCCAAGGGTTTCATGGACGGGAAGCAGGCGTGCCTGCTCATGATAAAAGCCCTGGAGCTCGAC
AGCAATCTGTACCGCATTGGCCAGAGCAAAGTCTTCTTCCGTGCCGGTGTGCTGGCCCACCTGGAGGAGGAGCGA
GACCTGAAGATCACCGACGTATCATAGGGTTCCAGGCTGCTGCAGGGGCTACCTGGCCAGGAAAGCATTGTCC
AAGCGGCAGCAGCAGCTTACCGCCATGAAGGTCTCCAGCGGAAGTGCCTGCCTACCTGAAGCTGCGGAACCTG
CAGTGGTGGCGGCTCTTACCAAGGTCAAGCCGCTGCTGCAGGTGAGCCGGCAGGAGGAGGATGATGGCCAAAG
GAGGAGGAGCTGGTGAAGGTGAGAGAGAAGCAGCTGGCTGCGGAGAACAGGCTCACGGAGATGGAGACGCTGCAG
TCTCAGCTCATGGCAGAGAAATTGCAGCTGCAGGAGCAGCTCCAGGCAGAAACCGAGCTGTGTGCCGAGGCTGAG
GAGCTCCGGGCCCCGCTGACCGCCAAGAAGCAGGAATTAGAAGAGATCTGCCATGACCTAGAGGCCAGGGTGGAG
GAGGAGGAGGAGCGTGCCAGCACCTGCAGGCGGAGAAGAAGAAGATGCAGCAGAACATCCAGGAGCTTGAGGAG
CAGCTGGAGGAGGAGGAGAGCGCCCGGCAGAAGCTGCAGCTGGAGAAGGTGACCACCGAGGCGAAGCTGAAAAAG
CTGGAGGAGGAGCAGATCATCCTGGAGGACCAGAACTGCAAGCTGGCCAAGGAAAAGAACTGCTGGAAGACAGA
ATAGCTGAGTTCACCACCAACCTCACAGAAGAGGAGGAGAAATCTAAGAGCTCGCCAAGCTCAAGAACAAGCAT
GAGGCAATGATCACTGACTTGAAGAGCGCCTCCGCAGGGAGGAGAAGCAGGACAGGAGCTGGAGAAGACCCGC
CGGAAGCTGGAGGGAGACTCCACAGACCTCAGCGACCATCGCCGAGCTCCAGGCCAGATCGCGGAGCTCAAG
ATGCAGCTGGCCAAGAAGAGGAGGAGCTCCAGGCCGCCCTGGCCAGAGTGAAGAGGAAGCTGCCCAGAAGAAC
ATGGCCCTCAAGAAGATCCGGGAGCTGGAATCTCAGATCTCTGAACCTCAGGAAGACCTGGAGTCTGAGCGTGT
TCCAGGAATAAAGCTGAGAAGCAGAAACGGGACCTTGGGGAAGAGCTAGAGGCTCTGAAAACAGAGTTGGAGGAC
ACGCTGGATTCCACAGCTGCCAGCAGGAGCTCAGGTCAAACGTGAGCAGGAGGTGAACATCCTGAAGAAGACC
CTGGAGGAGGAGGCCAAGACCCACGAGGCCAGATCCAGGAGATGAGGCAGAAGCACTCACAGGCCGTGGAGGAG

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FIGURE 6025B

CTGGCGGAGCAGCTGGAGCAGACGAAGCGGGTGAAAGCAAACCTCGAGAAGGCAAAGCAGACTCTGGAGAACGAG
CGGGGGGAGCTGGCCAACGAGGTGAAGGTGCTGCTGCAGGGCAAAGGGGACTCGGAGCACAAGCGCAAGAAAGTG
GAGGCGCAGCTGCAGGAGCTGCAGGTCAAGTTCAACGAGGGAGAGCGCGTGCGCACAGAGCTGGCCGACAAGGTC
ACCAAGCTGCAGGTGGAGCTGGACAACGTGACCGGGCTTCTCAGCCAGTCCGACAGCAAGTCCAGCAAGCTCACC
AAGGACTTCTCCGCGCTGGAGTCCCAGCTGCAGGACACTCAGGAGCTGCTGCAGGAGGAGAACC GGCGAGAAGCTG
AGCCTGAGCACCAAGCTCAAGCAGGTGGAGGACGAGAAGAATTCTTCCGGGAGCAGCTGGAGGAGGAGGAGGAG
GCCAAGCACAACCTGGAGAAGCAGATCGCCACCCTCCATGCCAGGTGGCCGACATGAAAAAGAAGATGGAGGAC
AGTGTGGGTGCTTGGAAACTGCTGAGGAGGTGAAGAGGAAGCTCCAGAAGGACCTGGAGGGCCTGAGCCAGCGG
CACGAGGAGAAGGTGGCCGCTACGACAAGCTGGAGAAGACCAGACGCGGCTGCAGCAGGAGCTGGACGACCTG
CTGGTGGACCTGGACCACCAGCGCCAGAGCGCGTGCAACCTGGAGAAGAAGCAGAAGAAGTTTGACCAGCTCCTG
GCGGAGGAGAAGACCATCTCTGCCAAGTATGCAGAGGAGCGCGACCGGGCTGAGGCGGAGGCCCGAGAGAAGGAG
ACCAAGGCTCTGTGCTGGCCCGGGCCCTGGAGGAAGCCATGGAGCAGAAGGCGGAGCTGGAGCGGCTCAACAAG
CAGTTCCGCACGAGATGGAGGACCTTATGAGCTCCAAGGATGATGTGGGCAAGAGTGTCCACGAGCTGGAGAAG
TCCAAGCGGGCCCTAGAGCAGCAGGTGGAGGAGATGAAGACGCAGCTGGAAGAGCTGGAGGACGAGCTGCAGGCC
ACCGAAGATGCCAAGCTGCGGTGGAGGTCAACCTGCAGGCCATGAAGGCCAGTTCGAGCGGGACCTGCAGGGC
CGGGACGAGCAGAGCGAGGAGAAGAAGAAGCAGCTGGTCAGACAGGTGCGGGAGATGGAGGCAGAGCTGGAGGAC
GAGAGGAAGCAGCGCTCGATGGCAGTGGCCGCCCGGAAGAAGCTGGAGATGGACCTGAAGGACCTGGAGGCGCAC
ATCGACTCGGCCAACAAGAACC GGACGAAGCCATCAAACAGCTGCGGAAGCTGCAGGCCCAGATGAAGGACTGC
ATGCGCGAGCTGGATGACACCCGCGCTCTCTGTGAGGAGATCCTGGCCAGGCCAAAGAGAACGAGAAGAAGCTG
AAGAGCATGGAGGCCGAGATGATCCAGTTGCAGGAGGAAGTGGCAGCCGCGGAGCGTGCCAAGCGCCAGGCCAG
CAGGAGCGGGATGAGCTGGCTGACGAGATCGCCAACAGCAGCGGCAAAGGAGCCCTGGCGTTAGAGGAGAAGCGG
CGTCTGGAGGCCCGCATCGCCAGCTGGAGGAGGAGCTGGAGGAGGAGCAGGGCAACACGGAGCTGATCAACGAC
CGGCTGAAGAAGGCCAACCTGCAGATCGACCAGATCAACACCGACCTGAACCTGGAGCGCAGCCACGCCCAGAAG
AACGAGAATGCTCGGCAGCAGCTGGAACGCCAGAACAAGGAGCTTAAGGTCAAGCTGCAGGAGATGGAGGGCACT
GTCAAGTCCAAGTACAAGGCCTCCATCACCGCCCTCGAGGCCAAGATTGCACAGCTGGAGGAGCAGCTGGACAAC
GAGACCAAGGAGCGCCAGGCAGCCTGCAAACAGGTGCGTCGGACCGAGAAGAAGCTGAAGGATGTGCTGCTGCAG
GTGGATGACGAGCGGAGGAACGCCGAGCAGTACAAGGACCGGCCACAAGGCATCTACCCGCTGAAGCAGCTC
AAGCGGCAGCTGGAGGAGGCCGAAGAGGAGGCCAGCGGGCCAACGCCTCCCGCCGAAACTGCAGCGCGAGCTG
GAGGACGCCACTGAGACGGCCGATGCCATGAACCGCGAAGTCAGCTCCCTAAAGAACAAGCTCAGGCGCGGGGAC
CTGCCGTTTGTGCTGCCCGCCGAATGGCCCGGAAGGCGCGGGGATGGCTCCGACGAAGAGGTAGATGGCAAA
GCGGATGGGGCTGAGGCCAACCTGCCGAATAA

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FIGURE 6026

MAQQAADKYLYVDKNFINNPLAQADWAAKKLVWVPSDKSGFEPASLKEEVGEEAIVELVENGKKVKVNKDDIQKM
NPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVVINPYKNLPYSEEIVEMYKGKKRHEMPPHI
YAITDTAYRSMMQDREDQSILCTGESGAGKTENTKKVIQYLAYVASSHKSCKDQGELERQLLOANPILEAFGNAK
TVKNDNSSRFGKFIRINFVNGYIVGANIETYLLEKSRAIRQAKEERTFHIFYLLSGAGEHLKTDLLLEPYNKY
RFLSNGHVTIPGQQDKDMFQETMEAMRIMGIPEEEQMGLLRVISGVLQLGNI VFKERNTDQASMPDNTAAQKVS
HLLGINVDTFTRGILTPIKVG RDYVQKAQTKEQADFAIEALAKATYERMFRWLVL RINKALDKTKRQGASFIGI
LDIAGFEIFDLNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIEKPAGPPGIL
ALLDEECWF PKATDKSFVEKVMQEQGTHPKFQKPKQLKDKADFCIIHYAGKVDYKADEWL MKNM DPLNDNIATLL
HQSSDKFVSELWKD VDRIIGLDQVAGMSETALPGAFKTRKGMFRTVGQLYKEQLAKLMATLRNTNPNFVRCIIPN
HEKKAGKLDPHLVLDQLRCNGVLEGI RICRQGF PNRVVFQEFRQRYEILT P NSIPKGFMDGKQACVLMIKALELD
SNLYRIGQSKVFFRAGVLAHLEEERDLKITDVIIGFQACCRGYLARKAF AKRQQQTAMKVLQRNCAAYLKLRNW
QWWRLFTKVKPLLQVSRQEEEMMAKEEELVKVREKQLAAENRLTEMETLQSQLMAEKLQLEQLQAE TELCAEAE
ELRARLTAKKQEELEEICH DLEARVEEEEEERCQHLQAEKKKMQONIQELEEQLEEEEESARQKLQLEKVTTEAKLKK
LEEEQIILEDQNC KLAKEKKLLEDRIAFTTNLT EEEKSKSLAKLKNKHEAMITDLEERLRREEKQRQEELEKTR
RKLEGDSTDLSDQIAELQAQIAELKMQLAKKEEELQAALARVEEEAAQKNMALKKIRELESQISELQEDLESERA
SRNKAEKQKRDLGEELEALKTELED TLDSTAAQQELRSKREQEVN ILKKTLEEEAKTHEAQIQEMRQKHSQAVEE
LAEQLEQTKRVKANLEKAKQTLENERGELANEVKVLLQGGKGDSEHKRKKVEAQLQELQVKFNEGERV RTELADKV
TKLQVELDNVTGLLSQSDSKSKLT KD FSALESQLODTQELLQEEENRQKLSLSTKLQVEDEKNSFREQL EEEEE
AKHNLEKQIATLHAQVADMKKKMEDSVGCLETAEEVKRKLQKDLEGLSQRHEEKVAAYDKLEKTKTRLQQELDDL
LVLDLDHQRSACNLEKKQKKFDQLLAEETISAKYAEERDRAEAEAREKETKALSLARALEEAMEQKAELERLNK
QFRTEMEDLMSSKDDVGKSVHELEKSKRALEQQVEEMKTQLEEELEDELQATEDAKLRLEVNLQAMKAQFERDLQG
RDEQSEKKKQLVRQVREMEAELEDERKQSRMAVAARKKLEMDLKDLEAHIDSANKNRDEAIKQLRKLQAQMKDC
MRELDDTRASREEILAQAKENEKKLKSMEAE MIQLQEELAAERAKRQAQQRDELADEIANSSGKGALALEEKR
RLEARIAQLEEELEEEQGNTELINDRLKKANLQIDQINTDLNLSHAQKNENARQQLERQNKELKVKLQEMEGT
VKSKYKASITALEAKIAQLEEQLDNETKERQAACKQVRRT EKKLKDVL LQVDDERRNAEQYKDQADKASTRLKQL
KRQLEEEAEAAQRANASRRKLQRELEDATETADAMNREVSS LKNKLRRGDL PFVVP RRMARKGAGDGSDEEVDGK
ADGA EAKPAE

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FIGURE 6027

GAATTCGGGCACGAGCTAACGCGGTCCCCGGGCACGCACCATCTGTTGCCATCCCGGCCGGCCGAGGCCATTGCAGA
TTTTGGAAGATGGCAAAGTTCATGACACCCGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCGGTTCCC
GAGCAGTTTCGGGATATGCCCTACCAGCCGTTCAGCAAAGGAGATCGGCTAGGAAAGGTTGCAGACTGGACAGGA
GCCACATACCAAGATAAGAGGTACACAAATAAGTACTCCTCTCAGTTTGGTGGTGGAAAGTCAATATGCTTATTTTC
CATGAGGAGGATGAAAGTAGCTTCCAGCTGGTGGATACAGCGCGCACACAGAAGACGGCCTACCAGCGGAATCGA
ATGAGATTTGCCCAGAGGAACCTCCGCAGAGACAAAGATCGTCGGAACATGTTGCAGTTCAACCTGCAGATCCTG
CCTAAGAGTGCCAAACAGAAAGAGAGAGAAACGCATTTCGACTCGAGAAAAAGTTCCAGAAACAATTTGGGGTTAGG
CAGAAATGGGATCAGAAATCACAGAAACCCGAGACTCTTCAGTTGAAGTTCTAGTGATTGGGAAGTGAAAGAG
GAAATGGATTTTCTCAGTTGATGAAGATGCGCTACTTGGAGTATCAGAGCCACAGGACATTGAGTGTGTGGG
GCCCTAGAATACTACGACAAAGCCTTTGACCGCATCACCACGAGGAGTGAGAAGCCACTGCGGAGCATCAAGCGC
ATCTTCCACACTGTCACCACCACAGACGACCCTGTCTATCCGAAGCTGGCAAAAACCTCAGGGGAATGTGTTTGCC
ACTGATGCCATCCTGGCCACGCTGATGAGCTGTACCCGCTCAGTGTATTCTGGGATATTGTCTGTCAGAGAGTT
GGGTCCAAACTCTTCTTTGACAAGAGAGACAACTCTGACTTTGACCTCCTGACAGTGAGTGAGACTGCCAATGAG
CCCCCTCAAGATGAAGGTAATTCTTTCAATTACCCCGCAACCTGGCCATGGAGGCAACCTACATCAACCACAAT
TTCTCCCAGCAGTGCTTGAGAATGGGGAAGGAAAGATACAACCTTCCCCAACCCAAACCCGTTTGTGGAGGACGAC
ATGGATAAGAATGAAATCGCCTCTGTTGCGTACCGTTACCGCAGGTGGAAGCTTGGAGATGATATTGACCTTATT
GTCCGTTGTGAGCACGAATGGCGTCATGACTGGAGCCAACGGGGAAGTGTCTTCATCAACATCAAGACACTCAAT
GAGTGGGATTCCAGGCACTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGAGGGGCTGTCATTGCC
ACGGAGCTGAAGAACAACAGCTACAAGTTGGCCCGGTGGACCTGCTGTGCTTTGCTGGCTGGATCTGAGTACCTC
AAGCTTGGTTATGTGTCTCGGTACCACGTGAAAGACTCCTCACGCCACGTATCCTAGGCACCCAGCAGTTCAAG
CCTAATGAGTTTGCCAGCCAGATCAACCTGAGCGTGGAGAATGCCTGGGGCATTTTACGCTGCGTCATTGACATC
TGCATGAAGCTGGAGGAGGGCAAATACCTCATCTCAAGGACCCCAACAAGCAGGTATCCGTGTCTACAGCCTC
CCTGATGGCACCTTCAGCTCTGATGAAGATGAGGAGGAAGAGGAGGAGGAAGAAGAGGAAGAAGAAGAGGAAGAA
ACTTAAACCAAGTGATGTGGAGCTGGAGTTTGTCTTCCACCGAGACTACGAGGGCCTTTGATGCTTAGTGGAATG
TGTGTCTAACTTGCTCTCTGACATTTAGCAGATGAAATAAAATATATATCTGTTTAGTCTTTTAAAAAAAAAAAA
AAAAAA

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FIGURE 6028

MAKFMTFVIQDNPSGWGFCAPVEQFRDMPYQPFSGDRLGKVADWTGATYQDKRYTNKYSSQFGGGSQYAYFHEE
DESSFQLVDTARTQKTAYQRNMRFAQRNLRRDKDRRNMLQFNLQILPKSAKQKERERIRLQKKFQKQFGVRQKW
DQKSQKPRDSSVEVRSDWEVKEEMDFPQLMKMRYLEVSEPQDIECCGALEYDYKAFDRITRSEKPLRSIKRIFH
TVTTTDDFVIRKLAKTQGNVFATDAILATLMSCTRSVYSWDIVVQRVGSKLFFDKRDNSDFDILLTVSETANEPQ
DEGNSFNSPRNLA MEATYINHNFSQQCLRMGKERYNFPNPNPFVEDDMDKNEIASVAYRYRRWKLGDIDLIVRC
EHDGVMTGANGEVSFINIKTLNEWDSRHCNGVDWRQKLD SQRGAVIATELKNN SYKLARWTCCALLAGSEY LKLG
YVSRYHVKDSSRHVILGTQQFKPNEFASQINLSVENAWGILRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDG
TFSSDEDEEEEEEEEEEEEEET

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FIGURE 6029

GGGGGGCGGGAGGAGGGGACAGCTGCGGGGCGCGGGGAGGGGGCGCCGCGCCGCGGGGGCCATGGCGGAGCCAGGA
AGCCGGGAGTCCGAGACCCGGGCCCCGAGCCCCGAGTGTCGCCGCCATGGCTTCGCCGCAGCTCTGCCGCGCGCTG
GTGTCGGCGCAATGGGTGGCGGAGGCGCTGCGGGCCCCGCGCGCTGGGCAGCCTCTGCAGCTGCTGGACGCCTCC
TGGTACCTGCCGAAGCTGGGGCGCGACGCGCGACGCGAGTTCGAGGAGCGCCACATCCCCGGGCGCCGCTTTCTTC
GACATCGACCAGTGCAGCGACCGCACCTCGCCCTACGACCACATGCTGCCCCGGGGCCGAGCATTTGCGGGAGTAC
GCAGGCCGCTGGGCGTGGGCGCGGCCACCCACGTCGTGATCTACGACGCCAGCGACCAGGGCCTCTACTCCGCC
CCGCGCGCTCTGGTGGATGTTCCGCGCCTTCGGCCACCACGCCGTGTCACTGCTTGATGGCGGCCTCCGCCACTGG
CTGCGCCAGAACCTCCCCGCTCAGCTCCGGCAAGAGCCAACCTGCTCCCGCCGAGTTCCGCGCTCAGCTCGACCCC
GCCTTCATCAAGACCTACGAGGACATCAAGGAGAACCTGGAATCCCCGGCGCTTCCAGGTGGTGGACTCCCGAGCC
ACTGGCAGGTTCCGCGGCACCAGCCCCGAGCCCCGAGACGGCATTGAACCTGGCCACATCCAGGTACCGTGAAC
ATCCCCCTTACAGACTTCCTGAGCCAGGAGGGGCTGGAGAAGAGCCCTGAGGAGATCCGCCATCTGTTCCAGGAG
AAGAAAGTGGACCTGTCTAAGCCACTGGTGGCCACGTGTGGCTCTGGCGTACAGCCTGCCACGTGGCACTAGGG
GCCTACCTCTGCGGCAAGCCAGACGTGCCCATCTACGATGGCTCCTGGGTGGAGTGGTACATGCGCGCCCGGGCC
GAGGATGTCTCTCAGAGGGCCGGGGGAAGACCCACTGAAGCTGGGCAGGACACAGGCGAGCTCAGGTGATGCCG
GCCACCAGCAATGCCTGGCCTGGTAGCTCCGCTTCTGCTTTTACCAAGAGAGTGTTCCTTCACTCAACTCAGGTG
GCATTTGGGGTGACATCTCAAAGGCCAGGAATTCCGTTGACTTGTTGGCTGCCAGTAGGGGCGGGAGGAAAGGCG
GAGGCGAGCCCTGGAGGAGGGAGGCCACAACCTCCGAGCTGCCACCTGGTGCTGAGCTGGGGCCCCGCCTCTCTT
CTGTTTTATTTTGGAGAAATAAAATAACCAAGTGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6030

MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIPGAAFFDIDQCSDRTSPYDHM
LPGAEHFAEYAGRLGVGAATHVVIYDASDQGLYSAPRVWWMFRAFGHHAVSLDGGLRHWLRQNLPLSSGKSQPA
PAEFRAQLDPAFIKTYEDIKENLESRRFQVVDSRATGRFRGTEPEPRDGIPEGHIPGTVNIPFTDFLSQEGLEKS
PEEIRHLFQEEKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVEWYMRARPEDVISEGRGKTH

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FIGURE 6031

GCGACTCTCCCGGGCTGCCAGCCGGGACGCGCGGCCGCCGCGCTGCAGACGACGAGTCCGCCCTCGTCCCGCGC
CCCCGGGGCTCGCGGAGCCAGGTCTCCACCTCTGGGCAGGAGATTGCCGACCACCTCGGGGGTGCTTTCTCTGC
GCTTGAACATCTATAGCTGCTTCTGAGGGGCTGGGAGCCGGGCCCCCTGGGAGAGACGAGCCATGAACCCCCACA
GCCTCTGCATTTGGGGACCTCACCTTAGGAGAGTGCCATTACAGCTTCCGCCAGGGCAAAGGAGCTGAGCAGCC
ATCCCAAGCCCAGCCCACCTCCCTCCCCGGCCCCCTGGTAGGCATGGACTAGCAGCTGTGAGCAGCCAGAGCTGA
TGCCCCGGCCCCCAGGGGGGCAGAGGCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGGTGTCCA
GTTACAGGGAAAGAGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCACACCATGCGATG
TGGGCCGTGGCGGGGATGTCTTCGGGGACAGCTCCTTCCTCAGCAACCACGGTGGCAGCTCCGGGAGCACCCATC
GCTCACCCCGCAGCTTCTGGCCAAGAAGCTGCAGCTGGTGCAGGGGTGGGGGCGCCCCCGGAGGATGGCAT
CTCCCCCTGCACCTCCCCGGCTCCACCGGCCATCTCCCCATCATCAAGAACGCCATCTCCCTGCCCCAGCTCA
ACCAGGCCGCTACGACAGCCTCGTGGTTGGCAAGCTCAGCTTCGACAGCAGCCCCACCAGCTCCACGGACGGCC
ACTCCAGCTACGGCCTGGACTCTGGGTTCTGCACCATCTCCCGCTGCCCGCTCGGAAAAGCCGCATGACCGAG
ACCGGGATGGTTCTTCCCTCTGAGCCCGGGCTTCGCCGCTCTGACTCTCTTGTCTTCCGCTGGACCTCG
ACCTTGGGCCCTCACTCCTCAGCGAGCTGTAGGGGTGATGAGCCTCCAGAAAGCCCCCTGCAGCTGAGACTCCAG
CCCCCGCTGCAAACCCCCAGCCCCCTACTGCAAACCCCCACGGGTCTGCTGCAAACCCCCAGCCACTACTGCAA
ACCCCCCAGCGCCTGCTGCAAACCCCTCAGCACCTGCCGCAACCCCCACGGGTCTGCTGCAAATCCCCCAGCCC
CTGCCGCAAGCTCCACACCCCATGGACACTGTCCCAATGGGGTAACAGCTGGGTGGGGCCAGTGGCTGAGGTGA
AGTCCAGCCCAGTGGGAGGGGGTCCCCGAGGACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGCAGGCTGGG
ATGGCGGCCACCACTACCCAGAGATGGATGCGCGGCAGGAGCGGGTGGAGGTGCTGCCCCAAGCCCGGGCCTCCT
GGGAGAGCCTGGACGAAGAGTGGAGGGCGCCCCAGGCAGGCAGGAGCCCCAGTGGCCAGCACAGTGAAGCAA
ACACCTTTGAATTTGCGGATGCTGAGGAGGATGATGAGGTCAAGGTGTGAGGGGCTGGGGCACGGTCCCAGGGCC
CCACCTAGGTGCAGAGCCGGCCCCCTCACCTAACAGCTGGTTCCCTACCAGACCGGAGAGGGGAGAAGTCATGTTGC
CCCTAAACCCCTCCCCACCTCTGCAGGACAGACATGGGAGGGAGGACAGGGAAGGCCAGGCTTGCTCTGGGACTT
TTATGCTCCCAGAGGCCCTGCCAAACTGACCACCTCCCCGACTGCCACTCTGGACCTAATAGCTGTTCTTAGG
CCCCACTCCATGCCACCCCCACCAGCTGGAGGACCCAGCCTCACAGTGTGTCTTTGTGCCAGACCAAGCGGCCC
GTGGGGGGTGGGGGGCAGGGAGTGTACCACACAGGGCCATTGTCTCACCTCCCAAAGGGACCGCTGCCCCAGC
TCATCCCAGAGCGTCCCTGCTGCAACCCTGACAGCCGTCTCCAGGCCGCTTCCCCAACATCCCCGCCCCAGCCT
CCCTCTTACCCCAGAAAGGTCAGGTATGACCTCCCGGGGAGGAATCCACCTGCCTGTATACCCCAGACTTGCTT
CTGGGGCCTGATTAAATAAGGCTGTTTTGAT

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FIGURE 6032

GGGGGCCGGTGGCGGATGGAGCCCGCGATGGAGCCGGAGACTCTGGAGGCGCGAATCAATAGAGCCACGAACCCC
CTGAACAAGGAGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGGACTTTGAGGGGCCTCCA
ETCGCCACCCGGCTGCTGGCCACAAGATCCAGTCCCCACAGGAGTGGGAGGCGATCCAGGCCTTGACGGTGCTG
GAAACATGCATGAAGAGCTGCGGCAAGCGGTTCCACGACGAAGTGGGCAAGTTCGCTTTCTCAACGAGCTCATC
AAGGTCGTGCTCCCAAGTATCTGGGCTCTCGGACATCGGAGAAGGTGAAGAACAAAGATCTTGGAGCTCCTCTAC
AGCTGGACAGTGGGCCTGCCGAGGAGGTGAAAATCGCAGAGGCCTACCAGATGCTAAAGAAGCAGGGGATTGTA
AAGTCCGACCCCAAGCTTCCAGATGACACTACCTTTCCCTTCTCCTCCACGGCCGAAGAATGTGATCTTTGAA
GATGAGGAGAAATCCAAGATGCTGGCCCGCTGCTGAAGAGTCCCATCCCAGACCTCCGCGCAGCCAATAAG
CTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAGATCTCGAAGAGGGTGAATGCCATCGAGGAG
GTGAACAACAATGTGAACTGCTCACGGAGATGGTGATGAGCCACAGCCAGGGCGGCGCAGCAGCTGGCAGCAGC
GAGGACCTCATGAAGGAAGTGTACCAGCGCTGTGAGCGGATGCGGCCACGCTTTCGACTGGCGAGTGACACA
GAGGACAATGATGAGGCCTTAGCGGAGATCCTGCAGGCCAATGACAACCTCACCCAGGTGATCAACCTGTATAAG
CAGCTGGTGGGGGTGAGGAGGTCAACGGTGATGCCACAGCCGGCTCCATCCCTGGGAGCACCTCGGCCCTGCTG
GATCTCTCAGGCCTGGATCTCCCGCTGCGGGCACCACTACCCAGCTATGCCACCCGCCCTGGCGAGCAGGCC
AGCCCTGAGCAGCCAGTGCCTCAGTTTCCCTGCTTGACGACGAGCTCATGTCTCTGGGCCTCAGTGACCCACACA
CCCCCTTCAGGCCCAAGCCTGGATGGTACCGGATGGAACAGCTTCCAGTCTGTCGGATGCCACTGAGCCCCAGCC
CCTGCTCTGGCCAGGCCCCAGTATGGAAGCCGACCCCAAGCGCAGACATCCCTGCCAGCAAGCAGCGGTCTG
GACGACCTAGACCTCCTGGGAAGACCCTCCTGCAGCAGTTCGCTGCCCCCGGAATCCCAGCAAGTGGGTGGGAG
AAGCAGCAGCCAACCCCCCGGCTCACACTCCGGGACCTGCAGAATAAGAGCAGCAGCTGCAGCTCCCCAGCTCC
AGCGCCACCAGCCTTCTCCACACCGTGTCCCCAGAGCCCCCAGGCCTCCGCAGCAGCCCGTACCAACCGAGCTC
TCACTGGCCAGCATCACTGTGCCCTGGAGTCCATCAAACCCAGCAACATCCTGCCCGTGACTGTGTATGACCAG
CACGGCTTCCGCATCCTCTTCCATTTTGGCCGGGACCCACTGCCAGGGCGCTCCGACGTGCTGGTGGTGGTGGT
TCCATGCTGAGCACCGCCCCCAGCCCATCCGCAACATCGTGTTCAGTCAGCTGTCCCCAAGGTTATGAAGGTG
AAGCTGCAGCCACCTCGGGCACGGAGCTGCCAGCTTTTAACCCCATCGTCCACCCCTCAGCAATCACCCAGGTC
CTGCTGCTTGCCAACCCCCAGAGGAGAAGGTTCCGCTCCGCTACAAGCTCACCTTCACCATGGGTGACCAGACC
TACAACGAGATGGGGGATGTGGACCAGTTCCCCCACCTGAAACCTGGGGTAGCCTCTAGAACAGAGGGGCTGGG
GAGAGGAAGGGGAGAGGGACCGGTCACTGTCCAGCCTGGAGGGAGGCATTGGTGGCCAAGGACACCCTTGTG
CCCATGECATTACCCCCAGGCCTGGTGCTTCTCCCCACACCCCTGTAGGCCTCAAGTGACTCTTCCCCCTCCT
GCTCCGGCCCCGCCCCCTGCTGAGCCAAACCCAGTAGGAGGCTGGGCCTGGGTTTGTGCCGCTGGGGTCTCCATCA
CCGGGACCTGGAGAGGGAGGGGCTGTGTAGCCTTGGAAGAACTTGGGTCATGGGGAGGAAGCACAGCTGTGGGG
AAGGGCCAGGACCTCAGGCCAGCCCCAACCCAGCTGGGGTGGGGTCTTCCCCACCTGTCTCTTATGCCCTATG
GGAAGGCCAGCCATAACTCGGGGCCATGCTGGAGCTGGGGACCAGCTTAGGCCTCCTCCATAGGAACCCAGTG
ACTGGGGGGTGACGCCTACACCCCAAGCTATTTGCACTCTGGTGTGTGGTTTGACTCTGCTTTTCTCCGGATTG
GCCCTGTGGTACAGCCTCAGGGGGCCAGGCTGGGGGAACCTCACCTGGCCCGTACTCCTGGGGGTTTCCCTTG
CCATTGGGGCCCCCTGAGGGACTGTGGGGGCTCAAGGGTAATGCCAGAGGCCCATGGCCCCAGCGAGGGGCTGTGG
GGCACCTAGAGTTCTCGGTGTGTCTCCTTATTGCGCTCTGCTGGGGCCTCCTATGGGTGTCTTACGTCTG
TCCATCCATCTGTCCGTGGTCAGAAGTGGGGTCAGTGTGTGAGTGAGAGCAGGAGTATTATGAAAATAAAACGT
CGTTTTTCTTGAAAAA

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FIGURE 6033

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQEWETAIQALTVLETCK
SCGKRFDHDEVGKFRFLNELIKVVSPKYLGSRTSEKVKNKILELLYSWTVGLPEEVKIAEAYQMLKKQGIVKSDPK
LPDDTTFFLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKRMEKISKRVNAIEEVNNNV
KLLTEMVMSSHQGGAAAGSSEDLMKELYQRCERMRTLFRLASDTEDNDEALAEILQANDNLTVINLYQLVRG
EEVNGDATAGSIPGSTSALLDLSGLDLPPAGTTYPAMPTRPGEQASPEQPSASVSLLDDELSLGLSDPTPPSGP
SLDGTGWNSFQSSDATEPPAPALAQAPSMESRPPAQTSLPASSGLDDLDLLGKTLLQQSLPPESQQVRWEKQOPT
PRLTLRDLQNKSSSCSSPSSSATSLLHTVSPEPPRPPQPVPTSLASITVPLESIKPSNILPVTVDQHGFR
LFHFARDPLPGRSDVLVVVVSMLSTAPQPIRNIVFQSAVPKVMKVLQPPSGTELPFNPVHPSAITQVLLLAN
PQKEKVRRLRYKLFTMGDQTYNEMGDVDQFPPPETWGS

[illegible]

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FIGURE 6035

MAESFKELDPDSSMGKALEMSCAIQNQLARILAEFEMTLERDVLQPLSRLSEEELPAILKHKKSLOKLVDWNTL
KSRLSQATKNSGSSQGLGGSPGSHSHTTMANKVETLKEEEEELKRKVEQCRDEYLADLYHFVTKEDSYANYFIRL
LEIQADYHRRSLSSLDTALAELRENHGQADHSPSMTATHFPRVYGVSLATHLQELGREIALPIEACVMMLLSEGM
KEEGLFRLAAGASVLKRLKQTMASDPHSLEEFCSDPHAVAGALKSYLRELPEPLMTFDLYDDWMRAASLKEPGAR
LQALQEVCSRLPPENLSNLRYLMKFLARLAEQEVENKMTPSNIAIVLGPPLLWPPEKEGDQAQLDAASVSSIQVV
GVVEALIQSADTLFPGDINFNVSGLFSAVTLQDTVSDRLASEELPSTAVPTPATTAPAPAPAPAPAPALASAAT
KERTESEVPPRPASPVKVTRSPPEAAPVEDMARRTKRPAPARPTMPPPVQSGSRSSPPAPPLPPGSGSPGTPQAL
PRRLVGSSLRAPTVPPPLPPTPPQPARRQSRSPASPSASPGPASPSVSLSNPAQVDLGAATAEGGAPEAISG
VPTPPAIPPPQPRPRSLASETN

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FIGURE 6036

GGCACGAGGGCCGTGCCCGCGGAGAGAGCGCGCGGGAGGCCGGCCGGCCGGCTGCATGGCGCGCTGCGA
GAGGCTGCGCGGAGCGGGCCCTGCGCGACGTGCTGGGCCGGGCGCAGGGGGTCCTGTTGACTGTGACGGGGTGCT
GTGGAACGGCGAGCGCGCCGTGCCGGGCGCCCCGAGCTGCTGGAGCGGCTGGCGCGGGCCGGCAAGGCGGCTCT
GTTTGTGAGCAACAACAGCCGGCGCGCGCGGCCCGAGCTGGCCCTGCGCTTCGCGCGCTCGGCTTCGGGGGGCT
GCGCGCCGAGCAGCTCTTCAGCTCCGCGCTGTGCGCCGCGCGCCTGCTGCGCCAGCGCTGCCCGGGCTCCGGA
CGCGCCGGGCGCCGTGTTCTGCTGCTGGGCGGCGAGGGGCTGCGCGCCGAGCTGCGCGCCGCGGGGCTGCGCCTGGC
CGGGGACCCGAGCGCGGGGGACGGCGCGGCCCGCGCGTGCAGCGCCGTGCTTGTGGGTACGACGAGCACTTCTC
CTTCGCCAAGCTGAGGGAGGCGTGCGCGCACCTGCGCGACCCCGAGTGCCCTACTCGTGGCCACCGACCGTGACCC
ATGGCACCCGCTGAGCGACGGCAGCCGGACCCCTGGCACCAGGAGCCTGGCCGCTGCAGTGGAGACAGCCTCGGG
ACGCCAGGCCCTGGTGGTGGGCAAGCCCAGCCCCTACATGTTGAGTGCATCACGGAGAAGCTTCAGCATCGACCC
CGCACGCACGCTTATGGTGGGTGACCGCCTGGAGACCGACATCCTTTGGCCACCGCTGCGGCATGACCACTGT
GCTCACGCTCACAGGAGTCTCCCGCTAGAAGAGGCCAGGCCCTACCTAGCGGCCGGCCAGCACGACCTCGTGCC
CCATTACTATGTGGAGAGCATCGCAGACTTGACAGAGGGGTTGGAGGACTAGAGCCCACTGCACCTGCAGCCACAG
GCCCCCCCCCTCCCCACTCCCTGATCCCGTAGGTGGAGGCGATGGGTACGAGCCATGTTAAGCACAAACCGGCTCC
TTGGTCCAGTTCTGCACCGGGGTGGGGCTGGGACCCGGGGAAGGTTTGGGGGCCCTTGCAACCCCCCTCCAGCAG
TGCTGGGCACTCTTTGCTGCCCCAGAAGCTGGTCCCTATGGATTTCATCTTGGCCTGACCCAGCCAGGTGGCCT
TATTTCTTCCCTGTCACCTCCCCCTCCTTGAAATCTGGGCCCTGGTGCTGCTGAAGATTCCCTCTATCCCTGAGT
ACTTAGTCTTCTCCCCCTTCCCTGGGGCTTCTAGAGCTCTCTCTGCCCCCTCAGGTCCTGGCCCTTGGGTCTTGT
CAACCAGAGGTCTAGGGAACCACAACCCCTTATTGTCTGGGTGGACCAATCCAAAGGCTAAGTGATAGTGACTCA
TCAATGTTGGGTCTGTGGGGTACCAGTTTAGGTTCTAAGTAATAGTGACCCTTTACGTCCTGGAGCCCGAGT
GGACCAATCGGAAGCCTAAGTGACGATGACCCTCGCATGTCTAGGTCCCTGGGTGGACCCATCAGGACCCCAAG
TGATAGTGACCCAGTGGTCTTTTAGATCCTCAGTAGAACAGTCCAGAAGCCTGAGAGACAGTGGCCCCCTTGATAA
TCTGGGTCTCACGGGACCAGCTAGGGGTCCAGGTTTCAGTCAGTAAATAAGAGTGGTCCACGTCTAAAGACACC
TCTCCTTTACAAAGACTTGTGATGCTCTGGGGCTTCTGTGGCCAAGCCCCACCCCTTCTGGTCATGGTACCCGT
ACAGCGTTGATGGCCACAGCTCGAAGGGGGGCTTTCTGTGTCCCCCTGTGCGGTGAGTGTTCAGTACCACCTCT
CTCCCGTGCCCACTTGGCTATTTACTTATTTATTTATTGTGTGCCAGTGATGGTGGGTGGGGGCTGGGCCTTCCC
CGCCACCTCCACCCCTGTTGTGACCTGTCTTCCGTACTTAATAAAGTGCGCGTGGGAGTGTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6037

MARCELRGAALRDVLGRAQGVLFDCDGVWNGERAVPGAPELLERLARAGKAALFVSNNRRARPELALRFARL
GFGGLRAEQLFSSALCAARLLRQRLPGPPDAPGAVFVLGGGLRAELRAAGLRLAGDPSAGDGAAPRVRAVLVGY
DEHFSFAKLREACALRDPECLLVATDRDPWHPLSDGSRTPGTGSLAAVETASGRQALVVGKPSPYMFECITEN
FSIDPARTLMVGDRLTDILFGHRCGMTTVLTLTGVSRLLEAQAYLAAGQHDLVPHYVESIADLTEGLED

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FIGURE 6038

ATCTCTCTCGGGTGGAGTCCTTCTGACAGCTGGTGCGCCTGCCCGGGAACATCCTCCTGGACTCAATCATGGCCTT
GTGGTCTGGTCGCCAGCAACCTGAATCTCAAACCTGGAGAGTGCCTTCGAGTGCGAGGCGAGGTGGCTCCTGACG
CTAAGAGCTTCGTGCTGAACCTGGGCAAAGACAGCAACAACCTGTGCCTGCACTTCAACCTCGCTTCAACGCCC
ACGGCGACGCCAACACCATCGTGTGCAACAGCAAGGACGGCGGGGCCTGGGGGACCGAGCAGCGGGAGGCTGTCT
TTCCCTTCCAGCCTGGAAGTGTTGCAGAGGTGTGCATCACCTTCGACCAGGCCAACCTGACCGTCAAGCTGCCAG
ATGGATACGAATTCAAGTTCCCCAACCGCCTCAACCTGGAGGCCATCAACTACATGGCAGCTGACGGTGACTTCA
AGATCAAATGTGTGGCCTTTGACTTGAAATCAGCCAGCCCATGGCCCCAATAAAGGCAGCTGCCTCTGCTCCCT
G

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FIGURE 6039

MACGLVASNLNLKPGECLRVRGVAPDAKSFVLNLGKDSNNLCLHFNPRFNAHGDANTIVCNSKDGGAWGTEQRE
AVFPFQPGSVAEVCITFDQANLTVKLDPGYEFKFPNRLNLEAINYMAADGDFKIKCVAFD

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FIGURE 6040

GGGCGGATGGAAGGGGCGGGGCGAGCGTCGGGGAAAGGAAGGGCCGGAGGCGCGGGCGGGCGGGCGAGAGGGG
CGGCGGGCGGGCGGGCGGGGTTCCCGCGCCGCGGAGCCCGGGCCGAGAGCCGCTCCACGTTCTGCCTCCT
GCTCCCGCGGCCCTGGGGCGCGCCATGACGCCCCGATCTGCTCAACTTCAAGAAGGGATGGATGTGATCTTGGA
CGAGCCTGGAGAGCCTCCCTCCCCCTCGCTCACCACCACCTCTACTTCGAGTGAAGAAACATTGGTTTGTGCT
GACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGAGATGAGCTGGATGGTGGATCGACCT
GCGTTCCTGCACGGATGTCACTGAGTACGCGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGT
CTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGAACGGATCGAGGCTCTGAGAAAGACCGTACGTCCAAC
TTCAGCCCCAGATGTACCAAGCTCTCGGACTCTAACAAGGAGAACGCGCTGCACAGCTACAGCACCCAGAAGGG
CCCCCTGAAGGCAGGGGAGCAGCGGGCGGGCTCTGAGGTTCATCAGCCGGGTGGCCCTCGGAAGGCGGACGGGCA
GCGTCAGGCCTTGGACTACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCCGAGCGGGCCCGACCCAGCCCCG
CACTCCTGACCGCCTGGCCAAGCAGGAGGAGCTGGAGCGGACCTGGCCAGCGCTCCGAGGAGCGGCGCAAGTG
GTTTGAGGCCACAGACAGCAGGACCCAGAGGTGCCTGCTGGTGAGGGGCCGCGCCGGGGCTGGGTGCCCCCT
GACTGAGGACCAGCAAAACCGGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCCCTGCG
GGAGAATAAGCGGGTGGCCCTCACTGCCCTGCTCAACCAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGACGG
CCACGAGGCACTGGAGAAGGAGGTTTCAAGGCTCTTCGGGCCAGCTGGAGGCGTGGCGTCTCCAAGGGGAGGCTCC
TCAGAGTGCATGAGATCCAGGAGGATGGCCACATCCCCCGGGCTACATCTCACAGGAGGATGTGAGCGCAG
CCTGGCAGAGATGGAGTCTCGCACCAGCAGGTGATGGAGGAGCTGCAGCGGCACCACGAGCGGGAGCTGCAGCG
CCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCCACGGCCTCAGCCATTGAAGCCATGAAGAA
GGCCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGTCTCCAGCAGGGCCCGGATGGCCTCCGGAA
GCAGCACCAGTCAAGTGTGGAGGCACTGAAGCGAGAGCTGCAGGTGCTATCGGAGCAGTACTCGCAGAAGTGCCT
GGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCGAGCACACGCTGCGCCGCTGCCAGCAGGAGGGCCAGGA
GCTGCTGCGCCACAACCAGGAGCTGCATGGCCGCTGTGAGGAGATAGACCAGCTGCGCGGCTTCATTGCCTC
GCAGGGCATGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCTGCGAGCTAGAGGTGCTGCTTCGCGTAAA
AGAAAACGAACTCCAGTACCTAAAGAAGGAGGTGAGTGCCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAA
GCGCTTCACCTCGGGAAAGTACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGAT
CGAGCAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGCAACAGCCTGGC
TGAGTAGAGGTCCCGCCAGCTGCAGACCCTCCAGGCTGGAGGACCAGCCGCCCTCCTTCCCTCCTGGATGGAAG
TAAAAAGCCAAGCTTTCTCCCCACCTCTGTGGGCCACACGTGCACTTGACCCACCACACACACACACACAC
ACACACACACACAGACACACAGACACATACGCACACACGTGCACACATGTACACACGGATACACACACACACA
CACACACTGCATATCTGAGCGCGCCCTCGCACTGGGTCTCACCTTGACCTTCTTCAGGATTTTATATGTGAAG
AGATTTTATATAGATTTTTTCTTTTTTTTCCAAAACACTTTATACTTTAAAAAAGCAATTCC
TGGTGGCTGTGTGCTCCAACCTGGTCCCCCTCTGTCTCCAGCCACCCTCTGCTTGGGCTTCTGAGCTGGTGGC
CCTGGCCAGAGGTCTGGCGGAGGCCAGGCAGCAGCATGGCGGGGTGTCTCTACAGGGGAGAGGCGGGAGCCT
GCCACCTCTTCTGCCCTACCTCCTACTAACCTTCTGCCCCATTTGGACCGTACCATGGGGCTCAGGACAG
AGGGAGCTAGCAGTGGCCTCCATGGCCCCACAGCCTCCTTCGAGGCTGTGCTGGGTGCAGAACCGCCAGAGCCA
CCCAAAGGTGTTTCTCTTCTGCTCCCTGAACCTCTTAACCTTAATAAAACGTTCCAGCAGCT

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FIGURE 6041

MTPDLLNFKKGWMSILDEPGEPPSPSLTTTSTSQWKKHWFVLTDS SLKYRDSTAE EADELDGEIDLR SCTDVTE
YAVQRNYGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVT KLSDSNKENALHSYSTQKGPLKAGEQR
AGSEVISRGGPRKADGQRQALDYVELSPLTQAS PQARARTPARTPDRLAKQEELE RDLAQRSEERRKWFEATDSRT
PEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLP LRENKRVP L TALLNQSRGERRGPPSDGHEALEKEV
QALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQVMEELQRHHERELQRLQQEKEWL
LAEETAATASAI EAMKKAYQEELSRELSKTRSLQQGPDGLRKQHQS DVEALKREQLV LSEQYSQKC LEIGALMRQ
AEEREHTLRRCQQEGQELLRHNQELHGRLSEEIDQLRGFIASQGMGNGCGRSNERSSCELEVLLRVKENELQYLK
KEVQCLRDELQMMQDKRFTSGKYQDVYVELSHIKTRSEREIEQLKEHLRLAMAALQE KESMRNSLAE

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FIGURE 6042

GGGAGGCAGAGGAGGCGGAGGCAGAGGCAGAGGCAGAGGCAGAGCCCGAGCCCGGTGCCGAGACCAAGCGACAGA
CCGGCGGGGCTGGGCCTCGCAAAGCCGGCTCGGCGAGCTCTCCCGACACCCGAGCCGGGGAGGAAAAGCAGCGAC
TCCTCGCTCGCATCCCCGGGAGCCGCACTCCAGACTGGCCCCGTAGTCAGGGGCTCAGGAGCAGATCCCGAGGCA
GGCTTTGCTCAGCCTCCGACGAGGGCTGGCCCTTTGGAAGGCGCCTTCAACAGCCGGACCAGACAGGCCACCATG
ACCGAGAATTCCACGTCCGCCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCACCCC
AAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACC GCGCTGGCTCCTCGCGCCAGTCCATTTCAG
AAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCTGGTC
ACCACCGGTGTCTCAAGCAGACCAAGGGGTGGGGGCTCGGGGTCTTCCGGCTAGCCAAGAGCGACGAACCC
AAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAGAAGGCATCCAAGCCC
AAGAAGGCTGCCCTCAAAGCCCCAACCAAGAAACCCAAAGCCACCCCGGTCAAGAAGGCCAAGAAGAAGCTGGCT
GCCACGCCCCAAGAAAGCCAAAAACCCAAGACTGTCAAAGCCAAGCCGGTCAAGGCATCCAAGCCAAAAAGGCC
AAACCAGTGAAACCCAAAGCAAGTCCAGTGCCAAGAGGGCCGGCAAGAAGAAGTGACAATGAAGTCTTTTCTTG
CGGACACTCCCTCCTGTCTCTATTTTCTGTAAATAATTTTCTCCTTTTTTCTCTCTTGATGCTCACCACCCT
TTTGCCCCCTTCTGTCTGACTTTATAAGAGACAGGATTTGGATTCTTCAGAAATTACAGAATAATTCATTTTTC
CTTAACCAGTTGTGCAAGGACAGCAACAACCAATCTAATGATGAGAATGTACTTATATTTTGTGTTTGCTATTAAC
CTACTTACGGGGTTAGGGATTGCGGGGGGGGCTTGTGTGTTTTGTTGGCTTGTTTGCCATGAAGGTAGATGTGG
GTGGGGAGAAGACACAAGGCAGTTTGTCTGGCTAGATGAGAGGGAACCCAGGAATTGTGAGGTAGCAGGAATA
TCTTTAGGGTGAGTGAGTTTTCTTTGAGTTGGGCACCCGTTGTGAGAGTTTCAGAACCTTTGGCCAGCAGGAGAG
AGGTGGTAGGGAGCAGCCAGCCGGCAAAGGAAGGAGGGGAAAAAACCGCCACCGGGCTGACTTCCACCTCCCA
GTGGTGAGCAGTGGGGGCCAAACCCAGTTTCTTCTCATTTTTGTTAGTTTGCGCTTTCGGCCTCCCTATTTTC
TTAGGGAAGGGGAGTGGGGTCCAAGTGACAGCTGGATGGGAGAAGCCATAGTTTCTCCAGTCAGCTAGGATGTA
GCCATTGGGGGATCTTTGTGGCTTCAGCAAATTCTCTTGTTAAACCGAGTGAAAACCTCAGGGGAAGGGTGGGG
AGTCAGCCAAGTGCCCTCAGTGTGCGCTGTGAAACTTAGGTTTTTCCACGCAATCGATGGATTGTGTCCTAGGAA
GACTTTTCTTTTCTCTGGATTTTTGTCTCCTGTACAGAGGTGTCTTTGCTTGTTTGGTGGGGCTGCGGCC
ACTTAAACCTCCCGATCTCTTTTTGAGTCCTTTATTATAAGTAGTTGTAGCTGCGGGAGGGGGAGGGGGAGTGG
GCGGGCAGTGGATAGTAAGACTTACTGCAGTCGATTTGGGATTGCTAAGTAGTTTTACAGAGCTAGATCTGTGT
GCATGTGTGTGTTTGTGTATATATACATATCTAGGGCTAGTACTTAGTTTCACACCCGGGAGCTGGGAGAAAAA
CCTGTACAGTTGTCTTTCTCTTATTTTTAATAAAATAGAAAAATCGCGCACTTGCGCGTCCCCCCCCACCCCT
TTTTTAAACAAGTGTTACTTGTGCCGGGAAATTTTGCTGTCTTTGTAATTTTAAACCTTTAAATAAATTGGAA
AAGGGAG

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FIGURE 6043

ATGACCGAGAATTCCACGTCCGCCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCAC
CCCAAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCGCCAGTCCATT
CAGAAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTG
GTCACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGGGGGCCTCGGGGTCCTTCCGGCTAGCCAAGAGCGACGAA
CCCAAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAG
CCCAAGAAGGCTGCCTCCAAAGCCCCAACCAGAAACCCAAAGCCACCCTTTTT**TAA**ACAAGTGTTACTTGTGCC
GGGAAAATTTTGCTGTCTTTGTAATTTTAAACTTTAAATAAATTGGAAAAGGGAG

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FIGURE 6044

MTENSTSAPAAKPKRAKASKKSTDHPKYSDMIVAAIQAEKNRAGSSRQSIQKYIKSHYKVGGENADSQIKLSIKRL
VITGVLKQTKGVGASGSFRLAKSDEPKKSVAFKKTKEIKKVATPKKASKPKKAASKAPTCKPKATLF

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FIGURE 6045

GTCTTTCCGGCGGTGCTCGCAAGCGAGGCAGCCATGTCTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTAT
GACCCCTACGCTTATCCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAG
TATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAACCTTCATCCAGTATTTCCACAAAACCTGCTCA
GATTTGATTGACCAGAAAGTGTATGAGCTACAGGCCAGTCGTGTCTCCAGTGATGTCATTGACCAGAAGGTGTAT
GAGATCCAGGACATCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCCGAG
GCTGAAGCCATTGCTCCACAGGTTGGCAATGATGCTGTCTTCCCTGATTTTATACAAAGAATTATACTACAGGCAC
ATATATGCCAAAGTCAGTGGGGGACCTTCCCTTGGAGCAGAGGTTTGAATCCTATTACAACCTACTGCAATCTCTTC
AACTACATTCTTAATGCCGATGGTCCCTGCTCCCTTGAACCTACCAACCAGTGGCTCTGGGATATTATCGATGAG
TTCATCTACCAGTTTCAGTCATTGAGTCAGTACCGCTGTAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTTT
CTTCGTTCCAATCCCAAAATCTGGAATGTTTCATAGTGCCTCAATGTCCTTCATTCCCTGGTAGACAAATCCAAC
ATCAACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCTGAGAGTGTGGCTGGGGAGTATGGGCGGCACCTCC
CTCTACAAAATGCTTGGTTACTTCAGCCTGGTCCGGCTTCTCCGCCTGCACTCCCTGTTAGGAGATTACTACCAG
GCCATCAAGGTGCTGGAGAACATCGAACTGAACAAGAAGAGTATGTATTCCCGTGTGCCAGAGTGCCAGGTCACC
ACATACTATTATGTTGGGTTTGCAATTTGATGATGCGTCGTTACCAGGATGCCATCCGGGTCTTCGCCAACATC
CTCCTCTACATCCAGAGGACCAAGAGCATGTTCCAGAGGACCACGTACAAGTATGAGATGATTAACAAGCAGAAAT
GAGCAGATGCATGCGCTGCTGGCCATTGCCCTCACGATGTACCCCATGCGTATCGATGAGAGCATTACCTCCAG
CTGCGGGAGAAAATATGGGGACAAGATGTTGCGCATGCAGAAAGGTGACCCACAAGTCTATGAAGAACTTTTCAGT
TACCTCTGCCCAAGTTCCTGTGCGCTGTAGTGCCCAACTATGATAATGTGCACCCCAACTACCACAAAGAGCCC
TTCCTGCAGCAGCTGAAGGTGTTTTTCIGATGAAGTACAGCAGCAGGCCAGCTTTCAACCATCCGCAGCTTCCTG
AAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCCTGGACCTCACAGAGCAGGAGTTCGGGATCCAG
CTTCTTGCTTTCAAACACAAGATGAAGAACCCTCGTGTGGACCAGCGGTATCTCAGCCCTGGATGGTGAATTTTCA
TCAGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAGGTCGCCAGGCGTTAT
GGGGATTCTTTCATCCGTCAGATCCACAAATTTGAGGAGCTTAATCGAACCCTGAAGAAGATGGGACAGAGACCT
TGATGATATTTCACACACATTCAGGAACCTGTTTTGATGTATTATAGGCAGGAAGTGTTTTTGCTACCGTGAAACC
TTTACCTAGATCAGCCATCAGCCTGTCAACTCAGTTAACAAGTTAAGGACCGAAGTGTTCAGTGGATCTCAGT
AAAGGATCTTTGGAGCCAGAAAAAAA

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FIGURE 6046

MSYPADDYESEAAYDPYAYPSDYDMHTGDPKQDLAYERQYEQQTYQVPIEVIKNFIQYFHKTVSDLIDQKVYELQ
ASRVSSDVIDQKVYEIQDIYENSWTKLTERFFKNTWPPEAEAIAPQVGNDVFLILYKELYRHIYAKVSGGPSL
EQRFEYYNYCNLFNYILNADGPAPLELPNQWLWDIIDEFIYQFQSFSQYRCKTAKKSEEEIDFLRSNPKIWNVH
SVLNLVHSLVDKSNINRQLEVYTSGGDPESVAGEYGRHSLYKMLGYFSLVGLLRLHSLLDGYQAIKVLENIEN
KKSMYSRVPECQVTYYYYVGFAYLMMRRYQDAIRVFANILLYIQRTKSMFQRTTYKYEMINKQNEQMHALLAIAL
TMYPMRIDESIHLQLREKYGDKMLRMQKGDPOVYEELFSYSCPKFLSPVVPNYDNVHPNYHKEPFLQQLKVSDE
VQQQAQLSTIRSFLKLYTTMPVAKLAGFLDLTEQEFRIQLLVFKHKMKNLVWTSGISALDGEFQSASEVDFYIDK
DMIHIADTKVARRYGDDFIRQIHKFEELNRTLKKMGQRP

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FIGURE 6047A

GGCCAAGCCGGGGCCCCGAAGCCAGAGCCGGAGCCGGGCGGGCCGCGGGGTCATGGCTGGGCCGCGGGGCGCGCT
GCTGGCCTGGTGCCGCCGCCAGTGCGAGGGCTACCGCGCGTGAGATCCGCGACCTGAGCAGCTCCTTCGGGA
CGGCCTGGCCTTCTGCGCCATCCTGCACCGGCACCGCCCCGACCTGCTAGATTTTGATTGCTTTCCAAGGACAA
TGTCTTCGAGAATAACCGTTTGGCCTTTGAAGTGGCTGAGAAGGAGCTGGGGATCCCCGCTCTCCTGGACCCAA
TGACATGGTCTCCATGAGCGTCCCTGACTGCCTCAGCATCATGACCTATGTGTCCAGTATTACAACCACTTCTG
CAGTCTGGCCAAAGCTGGTGTCTCGCCACCCAGAAAGGGCCTTGACCCCTGTTCCCCGCGCTCTGTAGACCCAC
TCCAGTGGAACCAGAAGATGTGGCTCAGGGCGAGGAGCTCTCCTCAGGCAGCCTGTCAGAGCAGGGCACC GGCCA
GACCCCCAGCAGCAGCTGCGCAGCCTGCCAGCAGCATGTGCACTTGGTGCAGCGCTACCTGGCTGACGGCAGGCT
GTACCATCGCCACTGCTTCCGGTGTGCGCGGTGCTCCAGCACCCCTGCTCCCTGGGGCTTATGAGAATGGGCCTGA
GGAGGGCACCTTTGTGTGTGCAGAACTGTGCCAGGCTGGGCCCCGGGACACGGTCGGGGACCAGGCTTGGGCC
CTTCTCACAGCCAAAGCAGCAGCACCAGCAGCAACTGCGAGAAGATGCCAAGGATGTTCCAGGAGGCGGCCCCAG
CTCCAGTGCTCCTGCAGGGGCTGAGGCCGATGGACCAAGGCCAGCCCTGAGGCCCGGCCGCGAGATCCCTACCAA
GCCCCGGGTTCTGGCAAACCTACAGGAGCTGGCCAGCCCCCTGCGGGCCGCCCCACCCCTGCCCCCAGGAAGGC
CTCTGAGAGCACCACCCAGCACCCCCACGCCCCGCCCCGCTCCAGTCTGCAGCAGGAGAACCTGGTGGAGCA
GGCTGGCAGCAGCAGCCTGGTGAACGGGAGACTGCACGAAGTGCCTGTCCCCAAGCCGAGGGGGACACCGAAGCC
GTCCGAGGGGACACCAGCCCCCAGGAAGGACCCCCCATGGATCACGCTGGTGCAGGCAGAACCAAGAAGAGCC
AGCCCCACTTCCCCAAGCAGCAGCCCCGGGCCCCACCAAGCCAGGACAGCAGGCAGGTGGAGAATGGAGGCACCGA
GGAGGTGGCCAGCCGAGCCCAACGGCCAGCCTGGAGTCCAACCCCTATAACCCCTTTGAGGAGGAGGAGGAGGA
CAAGGAGGAAGAGGCTCCAGCTGCACCCAGCCTGGCCACCAGCCCTGCCCTGGGCCACCCGGAGTCCACACCCAA
GTCCCTGCACCCCTGGTACGGCATCACCCCTACCAGCAGCCCCAAGACAAAGAAGCGCCCTGCCCCGCGCGCACC
CAGCGCGTCCCCACTGGCTCTCCACGCCTCCCGCCTCTCGCACTCGGAGCCGCCCTCGGCCACACCATCGCCAGC
GCTCAGCGTGGAGAGCCTGTCGTCTGAGAGCGCCAGCCAGACTGCAGGTGCAGAGCTTCTGGAGCCGCCAGCTGT
GCCCCAGAGCTCCTCAGAGCCTGCTGTCCATGCCCCCTGGTACCCCTGGAAACCCCTGTCAGCCTCTCTACCAACTC
CTCCCTGGCCTCCTCTGGGGAACCTAGTGGAGCCTAGAGTGGAAACAAATGCCTCAAGCCAGCCCTGGCCTTCCCC
CAGGACCAGGGGCGAGCTCAGGTCCCCAGCCAGCCAAGCCCTGCAGTGGCGCCACCCCAACGCCTCTCTTGTGGT
TGGAGACAGGAGCCCGTGCTTCCCCCTGGAAGCTCGTCCCCACAGCTGCAGGTAAAGTCTCTGCAAGGAGAA
TCCTTTTAACCGGAAGCCATCACCTGCAGCGTCCCCAGCCACAAAGAAGGCCACCAAGGGATCCAAGCCAGTGAG
GCCACCTGCCCCCTGGACACGGCTTTCCACTCATCAAACGCAAGGTCCAGGCTGACCAGTACATCCCTGAGGAGGA
CATCCATGGAGAGATGGATACCATTGAGCGCCGGCTGGATGCCCTGGAGCACCGTGGGGTGCTGTGGAGGAGAA
GCTGCGTGGCGGCGCTGAATGAGGGCCGTGAGGATGACATGCTGGTGGACTGGTTCAAGCTCATCCACGAGAAGCA
CCTACTGGTGCAGGAGAGTCCGAGCTCATCTATGTCTTCAAGCAGCAGAACCTGGAGCAGCGCCAGGCTGATGT
CGAGTATGAGCTCCGCTGCCTCCTCAATAAGCCAGAAAAGGACTGGACGGAGGAGGACCGGGCCCGGAGAAAGGT
GCTGATGCAGGAGCTTGTGACCCTCATTGAGCAGCGCAACGCTATCATCAACTGCCTGGATGAGGACCGGCAGAG
GGAGGAAGAGGAAGACAAGATGTTGGAAGCCATGATCAAGAAGAAAGAGTTCCAGAGGGAGGCTGAACCTGAGGG
CAAGAAGAAGGGGAAGTTCAAGACCATGAAGATGTTGAAACTGCTAGGAAACAAACGTGATGCCAAGAGCAAGTC
CCCCAGAGACAAGAGCTAAACAGCACGAGAAGCCAGTTGGGGACTGCCCCCTCCTGGAGCAGCTCCTGGGCTGTGC
TCTGTTTGAAGGGGGCGCCCTGCTCCCCCTCAGATCAGTCAGGAGGAAGATGACTAAGGGGAGGGATCCTCTGGGT
GATGGCCTCTTCTCTCAGGGACCTCTGACTGCTCTGGGCCAAAGAATCTCTGTTTCTTCTCCGAGCCCCAGG
CAGCGGTGATTACGCCCTGCCAACCTGATTCTGATGACTGCGGATGCTGTGACGGACCCAAGGGGCAAATAGGG
TCCCAGGGTCCAGGGAGGGGCGCCTGCTGAGCACTTCCGCCCCCTACCCCTGCCAGCCCCCTGCCATGAGCTCTGG
GCTGGGTCTCCGCTCCAGGGTTCTGCTCTTCCAGGCAGGCCAGCAAGTGGCGCTGGGCCACACTGGCTTCTTCC
TGCCCCATCCCTGGCTCTGAGTCTCTGTCTTCTGTCTGTGCAGGCGCCCTTGATCTCAGTTTCCCTCACTCA
GGAACCTGTTTTCTGAAGTCTTCAGTTAAGTTTGAAGTTTATGACTGAGTGGCCTGTACTGTGAGCAGTGAATGGG
CCTGACGGGCAAATCCATCCCTCTCTCCCTCACAGTTCCAGGAGCGGCTTCCCTCGTCTCCCTTACTCCACAGG
GAGCCTCCCTTGCCAGGACCAAGGGCTGCGACGGCCATGCTGGGGCAGGTGAGTGTCTGTGTAGCTGCTCCCAGTG
CTGTCCCCAGGCTGCAGTTCTGGTCCCTGGTTGTGAGGTAGGAAGGGTGCACCTGAAGCAGGTGCTCATCTCGGT
TCCTTAACGTTTATAGTCTGACCCCTCACTTAGGCTTTCCTCTGCCACCCCGGTCCAGGGAAGAGGCTCGTCCC
GCCCATGGTCATCACTGGTCTGTCTGTCTGTCTTCTTCCCTGACTCCCTCCCACCGAAGGCCTGATGG

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FIGURE 6047B

CTACTCACCCCTCTGGGATGGCTATGGGAGAGGAGGAGTGATGGGGACCGCCACCTTTTCTGCAGGAAATGTGCC
CAGCAGCTCTTGGTCAAAGCACTGTTGCTATAAGCTATCTCTGGGATGCCTCTAGGCCCCCTTCCCTCTACACAC
CTCTGGGAAAAGATTACACTGTATTAAGTCTCGAGGAGTTTCTCACCATAAACAGACAACCTCAACTGCCAGT
GCCCTGCAGCCTCGGGCCACAGCGGCAGCCTTGTTTGCCTTCCACCTGCCTCTGCCACACCTGGTGGCTGAACA
TCTCTGGTCGCCCAGAGGCCATGTTGGGGCCATCCTCCAAGAGGGATCTCTGCCCTCACC GCCTGCCACTGGGCA
GGATCCCTTTCTCTGCAGGGAGAGGTGGCTCCTCGGCCATGCAGCCCCTGGCAGGCTCCTTCTAAACATGCCTG
TTGACCTGGAGCTGGCGCCACCAACTCCAGGGCCTTTCAGGGCCAGACAGGTAACACGCATGAACCCGAGTGAC
AGCTCTGACGGGCTGTTTCGGTGTGAGGAGACAAAGCTGGCAGGGGCAGGGGTGAAGTGGAGGCAAGTCAAGTCA
CCTGTGGCCTGTGGGGCTGAATGTGGGCCCCGCTGTGCCAGATCCTTTGTGCATAAGAAGCTAGAAATCCAGATTT
TATGTGTGTGTAATTTGTAAATGCTGAAAGCTAGCCTGAATTTTTTTTTTTTTTTTTTTTGTAGACAGAGTCTCGCTC
TGTCGCCCAGGCTGGAGTGCAAGTGGCGCGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTTACGCCATCCTC
CTGCCTCGGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCTACGACGCCTGGCTAATTTTTTGTATTTTAGTA
GAGACGGGGTTTACCGTGTTAACAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTTGGCCTCCCA
AAGTGTCTGGGATTACAGGCGTGAGCCACCACGCCCCGCCACTAGCCTGAATTTCAATCAAGGGTTGGCTGATACT
GIGTGTCAGGGTGGACTGGATTTGTCTGGGGGTTCTCTGGTTTGTGCTCCTGACCACATGATGGGGCCTT
CGAGGTCGAGGACAACTGTTCCCATTAGATTGCACCTCTGCCCTCAGGTTCTTGAGGGTGTGTGGACACAGAGG
CTTTCCATGGGATGTCCCTGAGCCGGCCCTTGATTGGGGCCTCACCATTACAGGGCCGTTTATTCTGCAAACC
GAAACTTGGGTGATGTGACCTGATGGGATTATGGGACTCCCTCCAGGTGCCCGAGACAAGGTTGATATTTCCAAA
ATATTTTGGTGATTTAGTGGGACAAGCAAAATGACAGAATACCGGAGAAGGCAGGGATCGTGGGTGTGAGGAGCCA
GAGGGGAGGGGGACAGATGTGCTGTGTACAGGACAAGGTGTGAGGTGACTCCTTCCAGCAGGGCCTCGCAGATG
CACAAGCACGGAGCTGGTGGGTTTTGCCCAAGAAAGGTACGCGGCACATGCAGGGATTGGAATCCAGGCCAG
GGCTCTAGGTGCTCTCCACCTTTTTCATGTTTCTTCTGTGGCCATGGGTATAGTGGAAGACATAAAGCTAAAGC
CAACTTTTAATCCTGAATGCACTGCTTGCCAGGTAAATGCCCTTGTTGTGGTATCTTGTGAGACTTAGTTTTT
ACAGAGGGATAATGAACCGTTGCAGAGGTTTATTGAGATCATTAAACAGAGTGAATTCAGCACCCGCCACAGCAG
CCAGCCATGGG

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FIGURE 6048

MAGPRGALLAWCRRQCEGYRGVEIRDLSSSFRDGLAFCAILHRHRPDLLDFDSLSDNVFENNRLAFEVAEKELG
IPALLDPNDMVMSVPDCLSIMTYVSQYYNHFCSPGQAGVSPPRKGLAPCSPPSVAPTPEPEDVAQGEELSSGS
LSEQGTGQTPSSTCAACQQHVLVQRYLADGRLYHRHCFRCRRCSSTLLPGAYENGPEEGTFVCAEHCARLGP
RSGTRPGPFSQPKQQHQQLAEDAKDVPGGGPSSAPAGAEADGPKASPEARQIPTKPRVPGKLQELASPPAGR
PTPAPRKASESTTPAPPTPRPRSSLQENLVEQAGSSSLVNGRLHELPVKPRGTPKPSGTPAPRKDPPWITLV
QAEPKKKPAPLPSSSPGPPSQDSRQVENGGTEEVAQPSPTASLESKPYNPFEEEEEDKEEEAPAAPSLATSPAL
GHPESTPKSLHPWYGITPTSSPKTKRPAPRAPASPLALHASRLSHSEPPSATPSPALSVESLSSESASQTAGA
ELLEPPAVPKSSSEPAVHAPGTPGNPVSLSSTNSSLASSGELVEPRVEQMPQASPGAPRTRGSSGPQPAKPCSGA
TPTPLLLVGDRSPVPSPGSSSPQLQVKSSCKENPFNRKPSPAASPATKKATKGSKPVRPPAPGHGFPLIKRKVQA
DQYIPEEDIHGEMDTIERRDALEHRGVLEEKLRGGLNEGREDMLVDWFKLIHEKHLLVRRESELIYVFKQQN
LEQRQADVEYELRCLLNKPEKDWTEEDRAREKVLQMELVTLIEQRNAIINCLDEDRQEEEEEDKMLEAMIKKKEF
QREAEPEGKKKGKFKTMKMLKLLGNKRDAKSKSPRDKS

FIGURE 6049

[illegible]

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FIGURE 6050

MAEEQDLSEVELSPVGSEEPCLSPGSAPSLGPDGGGGGSLRASPGGELGKVKKEQQDGEADDDKFPVCIREA
VSQVLSGYDWTLVPMFVRVNGASKSKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLNESDK
RPFIEEAERLRMQHKDHPDYKYQPRRRKNGKAAQGEAECPGGEAEQGGTAAIQAHYKSAHLDHRHPGEGSPMSD
GNPEHPSGQSHGPPTPPTPKTELQSGKADPKRDGRSMGEGGKPHIDFGNVDIGEISHEVMSNMETFDDVAELDQY
LPPNGHPGHVSSYSAAGYGLGSALAVASGHS AWISKPPGVALPTVSPPGVDAKAQVKTETAGPQGPPHYTDQPST
SQIAYTSLSLPHYGSAFPSISRPFQFDYSDHQPSGPYYGHSGQASGLYSAFSYMGPSQRPLYTAISDPSPSGPQSH
SPTHWEQPVYTTLSRP

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FIGURE 6051

CTGGGGGTCCGTTCCCCAACTTCCTCGGGCTCCGGACTCCCAAGTCTCCGCCGGACCTCCTTTGGATATTCCCT
CGTGTCTCCGATTCTGAGAGAGGGGAAGACGGTGGGGCCTCCCCACCTGCCCCGAGAAGATGCAGTTCTTTGG
CCGCTTGGTCAATACCTTCAGTGGCGTCACCAACTTGTCTCTAACCATTCCGGGTGAAGGAGGTGGCTGTGGC
CGACTACACCTCGAGTGACCGAGTTCGGGAGGAAGGGCAGCTGATTCTGTTCCAGAACACTCCCAACCGCACCTG
GGACTGCGTCTGGTCAACCCCAAGAACTCACAGAGTGGATTCCGACTCTTCAGCTGGAGTTGGAGGCTGACGC
CCTAGTGAATTTCCATCAGTATTCTTCCAGCTGCTACCTTCTATGAGAGCTCCCTCAGGTCCTGCACACTGA
GGTCTGCAGCACCTGACCGACCTCATCCGTAACCACCCAGCTGGTCAGTGGCCACCTGGCTGTGGAGCTAGG
GATCCGCGAGTGCTTCCATCACAGCCGTATCATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGCTGCACACC
CCTGCACCTGGCCTGCCGCAAGGGTGATGGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCACACTCAGATGGA
TGTCACCGACTACAAGGGAGAGACCGTCTTCCATTATGCTGTCCAGGGTGACAATTCTCAGGTGCTGCAGTCTCT
TGGAAGGAACGCAGTGGCTGGCCTGAACCAGGTGAATAACCAAGGGCTGACCCCGCTGCACCTGGCCTGCCAGCT
GGGGAAGCAGGAGATGGTCCGCGTGTCTGTCTGTGCAATGCTCGGTGCAACATCATGGGCCCAACGGCTACCC
CATCCACTCGGCCATGAAGTTCTCTCAGAAGGGGTGTGCGGAGATGATCATCAGCATGGACAGCAGCCAGATCCA
CAGCAAAGACCCCGTTACGGAGCCAGCCCCCTCCACTGGGCCAAGAACGCAGAGATGGCCCGCATGCTGTGAA
ACGGGGCTGCAACGTGAACAGCACCAGCTCCGCGGGGAACACGGCCCTGCACGTGGCGGTGATGCGCAACCGCTT
CGACTGTGCCATAGTGTCTGTGACCCACGGGGCCACGCGGATGCCCGGGAGAGCACGGCAACACCCCGTGA
CCTGGCCATGTGCAAGACAACGTGGAGATGATCAAGGCCCTCATCGTGTTCGGAGCAGAAGTGACACCCGAA
TGACTTTGGGGAGACTCCTACATTCTAGCCTCCAAAATCGGCAGACTTGTCACCAGGAAGCGATCTTGACTCT
GCTGAGAACCGTGGGGCCGAATACTGCTTCCCACCATCCACGGGGTCCCCGCGGAGCAGGGCTCTGCAGCGCC
ACATCATCCCTTCTCCCTGGAAGAGCTCAGCCCCACCGATCAGCCTAAACAACCTAGAACTACAGGATCTCAT
GCACATCTCACGGGCCCGGAAGCCAGCGTTTCATCTGGGCTCCATGAGGGACGAGAAGCGGACCCACGACCACCT
GCTGTGCCTGGATGGAGGAGGAGTGAAGGCCTCATCATCATCCAGCTCCTCATCGCCATCGAGAAGGCCTCGGG
TGTGGCCACCAAGGACCTGTTTGACTGGGTGGCGGGCACCAGCACTGGAGGCATCCTGGCCCTGGCCATTCTGCA
CAGTAAGTCCATGGCTACATGCGCGGCATGTACTTTCGCATGAAGGATGAGGTGTTCCGGGGCTCCAGGCCCTA
CGAGTCGGGGCCCCTGGAGGAGTTCCTGAAGCGGGAGTTTGGGGAGCACACCAAGATGACGGACGTGAGGAACC
CAAGGTGATGCTGACAGGGACACTGTCTGACCGGCAGCCGGCTGAACTCCACCTCTTCCGGAACCTACGATGCTCC
AGAACTGTCCGGGAGCCTCGTTTTCAACCAGAACGTTAACCTCAGGCCTCCAGCTCAGCCCTCAGACCAGCTGGT
GTGGCGGGCGGCCGAAGCAGCGGGCAGCTCCTACTTACTTCCGACCAATGGGCGCTTCTGGACGGTGGGCT
GCTGGCCAACAACCCACGCTGGATGCCATGACCGAGATCCATGAGTACAATCAGGACCTGATCCGCAAGGGTCA
GGCCAACAAGGTGAAGAACTCTCCATCGTTGTCTCCTGGGGACAGGGAGGTCCCCACAAGTGCTGTGACCTG
TGTGGATGTCTTCCGTCCCAGCAACCCCTGGGAGCTGGCCAAGACTGTTTTTGGGGCCAAGGAACTGGGCAAGAT
GGTGGTGGACTGTTGCACGGATCCAGACGGGCGGGCTGTGGACCGGGCACGGGCTGGTGCAGATGGTCCGCAT
CCAGTACTTCAGATTGAACCCCAAGCTGGGGACGGACATCATGCTGGATGAGGTGAGTGACACAGTGTGTTCAA
CGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACCAGGAGTTCAGAAAGCTCATCCAGCTGCTGCTCTC
ACCTTGAGGGTCCCCAGCCTCTCACGGCCCCAGCTGACCTCGTCCATTGAGCCCTGCCAGGCCAAGCCAGCC
ACTGCCCTCCCGGGCAGATCTGGGGCCAGGCACCTCTGAGTCCATAGACCAGGCCTGGGAGAATGCCAAGCTGCC
TGCCCCGAGGCTGGTCTGAAGGCCTGTCTCCCACTAACCCCGCCTTCCAGCACTTTCTGTCAATTCCAGGCTGGGA
AAGTCTAGAGCCCCCTTTGGCCCCCTTCCCTGACTGTCAAGGACAACCTGACTCCCCCATCAGCTCAAACATTAAG
GGTACCCGGGCACAACCGTACCCCTGCCCCAGCCCCAGCCTCCCTGAGGGCCTGCCGGGCTGCCTCTGCCCCAG
CCCCAGCAAGGGCACTCCAGGCTTCTGGTGGGTGCAGCCACTCCCTCTGCCCTCTGCTCCGTTCCCTGGGG
GCTGGGACTAAAGAAATGGGTGTCCCCACCCCATCAGCTGGGAAAGCCAGGCCGAGGAGTGGGATGCCCGTT
GGACTTTGCCCTCACACTGGCCAGCCCCCTCACACTGCCCCACCCGAGAACCCTCAGCTCTCAAAGTCACTC
CTGGGAGTTTCTTCTTCCCAATGGAAGTGCTTAAGAGCCAAAACCTGAAATAAATCATTTGGATTCAAGTTC

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FIGURE 6052

CTTACAACCTCCGCGCGGCCTCGGCCCCCTGCGCCGCCGCCCAACAACAACTCAGCGCAGCGCTCCCGGGCGC
CCGGTTCAGAGCGACCTGCGGCTCAGAGCGGAGGGGAGACTGACCGGAGCGCGGATCGGGACAGCGGCCGGGACA
GCGGCGAGACGCGCGTGTGTGAGCGCGCCGGACCAAGCGGGCCAGAAAGCGGGTCTGCAGCCAGAGGGCACCTT
CTGCAAAACATGCTCTGTGGATCCCCATCCAGCAAAGCTCTAAAGATCAAGCGAGAGCTGAGCGAGAACACGCCGC
ACCTGTGCGACGAGGCGCTGATGGGGCTGTGCGGTGCGCGAGCTGAACCGGCATCTGCGCGGGCTCTCCGCCGAGG
AGGTGACACGGCTCAAGCAGCGGCGCCGCACACTCAAAAACCGTGGCTACGCCGCCAGCTGCCGCGTGAAGCGCG
TGTGCCAGAAGGAGGAGCTGCAGAAGCAGAAGTCGGAGCTGGAGCGCGAGGTGGACAAGCTGGCGCGCGAGAACG
CCGCCATGCGCCTGGAGCTCGACGCGCTGCGCGGCAAGTGCGAGGCGCTGCAGGGCTTCGCGCGCTCCGTGGCCG
CCGCCCCGCGGGCCCGCCACGCTCGTGGCGCGGCCAGCGTCATCACCATCGTCAAGTCCACCCCGGGCTCGGGGT
CTGGCCCCGCCCACGGCCCGGACCCCGCCACGGCCCGGCTCCTGCTCCTAGTGCCCCCGCCCATGCCTCA
GCCACGCCCTCCGGCTCAGCTCCCTCCCCAAAGTGCTGAGCGCGGCTCTGTGCCAGGTCCCATTTCTCTG
CAGCACTGGCCCCCTTGGTGACACACATTCCCTTCGTGGGCCCTGTCTTCTCTTGAGCCCCCAAACCTGGGAC
CGAATGACCTGGGAAGGGGAAGTTGGGTAGGTTGGGGATGGGGCAGAGGTCTGGATCTGGGATCGCCCTTGGCT
GAAAGTTTAGCCTTTTATAGATTGAGAGATACAGAGCCGGCTTAGAGAACAGCTGTTGGGGGAGAAGAGGGCACCC
CTCATCTTGAAACTGCTCTTATTGTGCCAATATGCCCTCCAAACCTCCCAGGATTCAAAGCTAGGTTTGGCTG
TCTGTGACTTACGGGACCGTCCTGCTGAGAAATTGCACTGAAGAGATGCCCCACCTCTGGTTGGGCTTGGGGT
GCCTGGCCTTCCGAACTAAAAGAGTGGGTGGGAAGACTAGTGAAACCCAGTTCACGGATGGGGAAACAGGCCTG
AGGTCACATTTCACTTAGTGGTTGTGTTGGGACCAAAACCTGGGTGTCTCACTGCTGAGTCCAGCCATGTTTT
CAGGGGGACAGTGGACAGGGACTCAGAAATGTGGTGGGAGGGCCTCCCTGGCTTGGGAGACCGCTCTCTGCAAGG
GAGGGGGAGAGAAGCAGAGGGAGAGAGAAGGTGACACGGATGGAAGAGTGGGAAGGAGCTGGCCTGGCTCAGCCC
TAGGCTGTCCCTGCAGCCAGGGTGTCCGGGGGCTGGCCAGTCAGAGAAAGGGGGCCATGGACTGCTGTGGCAAAT
AGGGAGACAAGGAGACAGACCCTGCAGTCTACTACAGTCTGGAGTGGGGTCTTAAGAAGAAGGGTCCCACCTCA
ACCCCTGTCAGTGTCCACTGTGGGTGGGGGCTGACCCCTGCCTTTGATTGTATTCTCTGGGAAGCCAGTCT
CAGTCCCTCCCCAACACTGTCCACACTGCCCTCCCCACTGTTTATTTATTGCACGGATCTAAGTTATTCTCCC
CAGCCAGAGCCCAGCTCCTGCTCCCTGGGAAAAGTGGCGTATGGCCCTGAGCTGGGCTTTATATTATATATCTG
CAAATAAATCACATTTTATCTTATATTTAGGGAAAGCCGGAGAGCAACAACAAAAAATGTTTAAGCCGGGCGCGG
TGGCTCACATCTGTAATCCAGCACTTTGGGAGTCCAAGGAGGGGATCGCTTGAGTCCAGGAGTTTGAGACCAG
CCTGGACAACATGGTGAACCCCGTCTCTACAAAAAATACAAAAATTAGCCATGCATGGTGGCTCATGCCTGTAG
TCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTAAGCCCAAGAGGCAGAGGTTGTAGTGAGCTGAGATCG
CACCCTGCACTCCAGCCTGGGCAACATAGCAAAATCCTGTCTCAAAAAAAGTTAAAAAATATTGCCCGGCTC
CTAGAAATTTATTTATTTCTGACTTACAGCAAGCGAGTTATCGTCTTCTGTATTTGTAGACTTTCTAAATAAAG
TCAATTCCTTTCTTTTCCACAGAAAAA

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FIGURE 6053

MSVDPLSSKALKIKRESENTPHLSDEALMGLSVRELNRLRGLSAEEVTRLKQRRRTLKNRGYAASCRVKRVCQ
KEELQKQKSELEREVDKLARENAAMRLELDALRGKCEALQGFARSVAAARGPATLVAPASVITIVKSTPGSGSGP
AHGPDPAHGPASCS

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FIGURE 6054

CGCCGGCGGGCGGGGAGACTCCGGGGGCTGCGGCGCCGCCCGCCCCCGCCGAGAGTCCGGCTGCCGCGCATCGTC
CGCAGACGCCGCCACCGCCATGGGCTCCTGAGGCTAGCTTGTCACTTTCTGCAAAGGTTTCCCTCAGGGAGCCTC
CTGCTGCCAGGCACCATGACAGTGAGGGGGGATGTGCTGGCCCCGGATCCAGCGTCGCCCACGACCGCAGCAGCC
TCGCCCAGCGTCTCCGTGATCCCCGAGGGCAGCCCCACTGCCATGGAGCAGCCTGTGTTCTGTGACAACCTGCC
GCTCAGGCCATCTCTGGCTTCTTCGTGTGGACGGCCCTGCTCATCACATGCCACCAGATCTACATGCACCTGCGC
TGCTACAGCTGCCCCAACGAGCAGCGCTACATCGTGCGCATCCTCTTCATCGTGCCCATCTACGCCCTTTGACTCC
TGGCTCAGCCTCCTCTTCTTACCAACGACCAGTACTACGTGTACTTCGGCACCGTCCGCGACTGCTATGAGGCC
TTGGTCATCTATAATTTCTGAGCCTGTGCTATGAGTACCTAGGAGGAGAAAGTTCCATCATGTGCGGAGATCAGA
GGAAAACCCATTGAGTCCAGCTGTATGTATGGCACCTGCTGCCTCTGGGGAAAGACTTATTCCATCGGATTTCTG
AGGTTCTGCAAACAGGCCACCTGCACTTCTGTGTGGTGAAGCCACTCATGGCGTTCAGCACTGTGGTCTCTCCAG
GCCTTCGGCAAGTACCGGATGGGGACTTTGAGTCAACAGTGGCTACCTCTACGTGACCATCATCTACAACATC
TCCGTACAGCTGGCCCTCTACGCCCTCTTCCCTCTTCTACTTCGCCACCCGGGAGCTGCTCAGCCCCCTACAGCCCC
GTCCTCAAGTTCTTCATGGTCAAGTCCGTATCTTTCTTTCTTCTGGAAGGCATGCTCCTGGCCATCTCTGGAG
AAGTGTGGGGCCATCCCCAAAATCCACTCGGCCCGCGTGTGCGTGGGCGAGGGCACCCTGGCTGCCGGCTACAG
GACTTCATCATCTGTGTGGAGATGTTCTTTGACGCCCTGGCCCTGCGGCACGCCTTCACCTACAAGGTCTATGCT
GACAAGAGGCTGGACGCACAAGCCGCTGTGCCCCATGAAGAGCATCTCCAGCAGCCTCAAGGAGACCATGAAC
CCGCACGACATCGTGCAGGACGCCATCCACAATTCTACCTGCCTACCAGCAGTACACGCAGCAGTCCACCCTG
GAGCCTGGGCCCCACCTGGCGTGGTGGCGCCACGGCCTCTCCCGCTCCACAGCCTCAGTGGCGCCCGGACAAC
GAGAAGACTCTCTGCTCAGCTCTGATGATGAATTCTAGGTGCGGGCTGCAGTGGCGGAAGTGTGGCGCCATAG
CCACGGTACAGCTGTGCCCCACCTCCAGCCTCACCACCAGGCCAGGAGGCAGCTGGCACAGTGTCTACGCCGCT
TTATTTATTGGACCAGAAACACTCACATGTCACTTCCAGAGGAACGGGGGACAGCCAGGCTCGCCCATGGGCCTT
CAGGAATATTATACATGGCCAGCCTGCCTGCCCGGGCGAGGGCAGAGGACACTGGGAGCAAGGCTTATGCCC
CTGCTGCCCGTCTCTGTGCTGGGGGCATGCTGGGACCAGCCGACCCAGGCCCAATGCTTGTGTGTGGACCAGCG
GCTGCAGCCTTCTAGCCCCCTCTCCCCGCGAGACTCTCAGGCTGAGGTGCGCAAGCCGTGGCTCCCCACACACC
GTGCAATACCTGTCTGACCTGGGCTCTTCCCGCTGCATCCCTCCCTGTCCACCTTTGTCCAGTGTCTAGATT
ACCTCACCCCGGGCAGGAGTGGGGATGTGGGCGCTCTGTGGTCTCCCTCCTGACCCAGGCCTCTGTGGCATGC
TGCAAGGATCAGAGCCAGACACCAGGAGTACAGGCCCCACCCAGGAAGGGCATTAGGGCCCCCTGGGCACCGCT
TCTGTTGAAGCAGGGGCTTCTGGGCCCCCTGGGTATCCCCACCTGTCTGGCCACACCTCTGCCTGCCTCATGCCC
CTTCCCCCTGGCTACCAAGGACAGCCACAGCCCGCACTGCCGGCTCACTTGGGTCTTCTCTGATAGCTTTGG
GCAGAGCCCTTGCTTCTGGCTGCTTCAGGGCTCAGGGGCTCCAGCCCTCCTTCCAGGCTGATGCTGGGTCT
CTCTCTCTTTGGGGCTTCTCCCTCCCGTTTCAGGGGAAAGGTCTGAGTCTCCACGTTTCAGACCAGCTTCTGGGG
GAAGGCAGTCCGGCAGGGAGACCGGGAGGGGTGGCCACACAGTGGGGAGCTGGGAGGTGGGGGAATGGTCCAG
ACTCCTCTCGGGGCCCCATCCACACAGGGCCTGGTGTCTACCCCATCTGGCCCCCTGGCCCATCTCTTCTGTGC
CTTAGTCACATATGAAAGCGCCCCCTCCCTGGCTCCCATCTGTCCACACGCTCCCTGGGGCTCTTAGTTCAGCT
GCTGGCACTCGCAGGATCCTGCAGTGTGGGCCAGAGCCCTTGGACAGGCCTCAGGAGTGGTCAGGACCACCAA
GCCCCCTCTCTCCCCCTCCACACCTCTAGACCTGGGGCTCCGGAACCCCCAGCAGGCTGGGCTTATACTAGCTC
CTGACTTAGGAAGAGCCTCGTGTCAACAACAGTGTCCCTACAGGCAAGTGTCTTGGCATTAAACCCAGATTA
TCCCTGGGTTTGGGCTGCAGTACCTGGAGAAGCTGGTAGGGTAAGGGAGAGGGACCCTGCCGTGTTCACTGGG
GATTCTTTCTTTTGGTCTTCTTGAATGAACAGGTTCCCTCCCTGCCACCTGTGAGGAGAGTTGGGGCCCCAGCC
GTCTTCTGGGCTCTTCTTCTTCTCGTGGCAGAGGCTGCATGTGGGTGCCAGAGGCCAGCTCTCCCCCTCCAT
CTTGGGGGGGGCAGCAGTTGGGGCCAAAGCTGCCCGGGAGGGTGGGTGCAGACACAGGCTGAGGACCAGCCCTGG
CCCTGCCCGCCATCTGCTTTACCAAGCTGTCTCTCCACCGTGGCTTCCCTTCTCCCTCCAGGCCAAAGTCTG
CTGATTCCCACTCCCTTGGTTTTCGCCTGCCAGCGTGTGTTTTGCGTGGAGGGTGGGGGGAGCTCAGTGGCAG
GGAATCAGCGGTCCGTGGGGTCTGTGGGACGGGAACATGTGCCCGACCGCTCCATCCCCCTCTCTCTTAGGAT
GCATAACCTACCTGTCTTTTTTTTTTAAATTTCTTCCAGGTAGAGTAGCTCTTTGTACATAAAGAATACTT
GAAAAATTAATTGTATGATGTATGAGAAGACAGAGTCTCCTAGTTTTGTATCTTGTGTATGACTGCCATGAGTT
CCACCAGAAAGCCACTCTATTTTGGTCCCTGTGACATTTAAATGCGTGACAGAAGTGAGCAAATAAAGTGAGGA
AGAAATCTATATATGAGATAATATAGATTGTATTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6055

MEQPVFLMTTAAQAISGFFVWTALLITCHQIYMHLRCYSCPNEQRYIVRILFIVPIYAFDSWLSLLFFTNDQYYV
YFGTVRDCYEALVIYNFLSLCYEYLGGESSIMSEIRGKPIESSCMYGTCCCLWGKTYSIGFLRFCKQATLQFCVVK
PLMAVSTVVLQAFGKYRDGDFDVTSGYLYVTIIYNISVSLALYALFLFYFATRELLSPYSPVLKFFMVKSVIFLS
FWQGMLLAILEKCGAIPKIH SARVSVGEGTVAAGYQDFIICVEMFFAALALRHAFTYKVYADKRLDAQGRCAPMK
SISSSLKETMNP HDIVQDAIHNFSPAYQQYTQOSTLEPGPTWRGGAHGLSRSHSLSGARDNEKTLLSSDDEF

[illegible]

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FIGURE 6057

MPFFGNTFSPKKTPPRKSASLSNLHSLDRSTREVELGLEYGSPTMNLAGQSLKFENGQWIAETGVSGGVDRREVQ
RLRRRNQQL EEENNLLRLKVDILLDMLSESTAESHLMEKELDELRI SRKRK

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FIGURE 6058

GGCACGAGGCAGTCATGGCTGCCGCCGTCGCTGCTGCCGGTGCCAGGGGAACCCAGTCCCCGGACGAATTGCTCC
CGAAAGGCGACGCGGAGAAAGCCTGAGGAGGAGCTGGAGGAGGACGACGATGAGGAGCTAGATGAGACCCCTGTCGG
AGAGACTATGGGGCCTGACGGAGATGTTTCCGGAGAGGGTCCGGTCCGCGGCCGGAGCCACTTTTGATCTTTCCC
TCTTTGTGGCTCAGAAAATGTACAGGTTTTCCAGGGCAGCCTTGTGGATTGGGACCACTTCCTTTATGATCCTGG
TTCTTCCCGTTGTCTTTGAGACGGAGAAGTTGCAAATGGAGCAACAGCAGCAACTGCAGCAGCGGCAGATACTTC
TAGGACCTAACACAGGGCTCTCAGGAGGAATGCCAGGGGCTCTACCCCTCACTTCCTGGAAAGATCTTAGATTGTTA
TTGCTGTTTGAGCTGTCTCAGTGGGATAAGTTTGAAATTCAAGTGTTTGAAGTCTGATAATTTGGATTTTTTTT
TTTTTAACTTTGGCACATTGATCTATCTAAACCCGGTGGGGAGAATTATCCCCACATTGTCTCATGGAAAGACTC
AACTTGCAACTGTGCCCTCCACACTATCCTTACTTCTGTCTCCACTCTGATACCAGAGTGCAGCCATGCAGACGG
TTATTCCAGCTCTGGTCACCCGACTCCTTTCACCAAATTGCTCCTAACTGGAAGATCTCACTTTCCCTTGTGGG
GTAGGAACCGATGCCAGTGGGAGGGATGTGCCCTGACCATTAAACGACTGTTTTTTTTTTTTTTTTTAAAGAATG
GAGTTGTTGGGGCGGGACATGCACACAATGTGAAACAGACAAAATGCATTACACCTGTAGTGTAAGTGGCCACT
ATGAATCCCTATGTATGAGAGGAGGGAGGCAGGCTGCAGCTTCAGCCACAGAATGGGGACTATGGAAGACAGCAG
GAGCTCATTTCCTCTGCACATTTGGCTGTTAGACCTGTGTGTGTGTTTAAAAAAGAGAAGTCAGTGCTCACTT
TTTGTATTAAATATTAAAAATGATTCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 6059

MAAAVAAAGAGEPQSPDELLPKGDAEKPEEELEEDDDEELDETLSERLWGLTEMFFERVSAAGATFDLSLFVAQ
KMYRFSRAALWIGTTSFMLVLPVVFETEKLOMEQQQQLQQRQILLGPNTGLSGGMPGALPSLPGKI

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FIGURE 6060

ACTTTAAAGAGGGCTGCTCAACTGCAAGGACGCTGTAAGCAGGAAGAGAAGCCACAGCGCTTCAGAAAAGAGTGG
GACAGGGACAAGCATATCTAAGAGGCTGAACATGAATCCACAGATCAGAAACCCGATGAAGGCAATGTATCCAGG
CACATTCTACTTCCAATTTAAAAACCTATGGGAAGCCAACGATCGGAACGAAACTTGGCTGTGCTTCACCGTGGA
AGGTATAAAGCGCCGCTCAGTTGTCTCCTGGAAGACGGGCGTCTCCGAAACCAGGTGGATTCTGAGACCCATTG
TCATGCAGAAAGGTGCTTCCTCTCTTGGTTCTGCGACGACATACTGTCTCCTAACACAAAGTACCAGGTCACTG
GTACACATCTTGGAGCCCTTGCCAGACTGTGCAGGGGAGGTGGCCGAGTTCCTGGCCAGGCACAGCAACGTGAA
TCTCACCATCTTCACCGCCCGCTCTACTACTTCCAGTATCCATGTTACCAGGAGGGGCTCCGCAGCCTGAGTCA
GGAAGGGGTCGCTGTGGAGATCATGGACTATGAAGATTTTAAATATTGTTGGGAAAACTTTGTGTACAATGATAA
TGAGCCATTCAAGCCTTGGAAGGGATTAAAAACCAACTTTCGACTTCTGAAAAGAAGGCTACGGGAGAGTCTCCA
GTGAGGGGTCCTCCCTGGGCCTCATGGTCTGTCTCCTTAGCCTCCTGCTCATGCTGCACGGGCCTCCCTCCACC
CTGGACCCGCTCTGTTTCTGCCTGGTCATCCTGAGCCCTCCTGGCCTCAGGGCCATTCCACAGTGCTCCCTGC
CTCACCGCTTCCTCCTCGCTCTTCCAGACTCTTCTGCAGAGGCTCCTTTCTGCCTCCATGGCTATCCATCCACC
CCCACAGACCCCGTTCTCCAGCCTGCGTGCCCTAACCTGGCTTTTCCCATCTCCCCAGCATAACCAAATCTTA
CTAAACTCATCTAGGCTGGGCATGGTACTCACGCCGTGAATCCCCCAGCAATTTGGGAGGCAAAGGTGGGAGA
ATCGCGTGAGCCCAGGAGTTCAGACCAGGCTGGGTACATGACAAAGCCCCATCTCTACAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAG

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FIGURE 6061

CTCTACCGGCGGGATTGATGGCGTGATGCTCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGCTTCC
TGCTTCGGAAGCGCAGCAGCAGGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCC
ACCTCACAGCCTTCTGGGATACAAGGCTGGCATGACTCACATCGTGCAGGAAGTCGACAGGCCGGGATCCAAGG
TGAACAAGAAGGAGGTGGTGGAGGCTGTGACCATTGTAGAGACACCACCCATGGTGGTTGTGGGCATTGTGGGCT
ACGTGGAACCCCTCGAGGCCTCCGGACCTTCAAGACTGTCTTTGCTGAGCACATCAGTGATGAATGCAAGAGGC
GTTTCTATAAGAATTGGCATAAATCTAAGAAGAAGGCCTTTACCAAGTACTGCAAGAAATGGCAGGATGAGGATG
GCAAGAAGCAGCTGGAGAAGGACTTCAGCAGCATGAAGAAGTACTGCCAAGTCATCCGTGTCATTGCCCACACCC
AGATGCGCCTGCTTCTCTGCGCCAGAAGAAGGCCACCTGATGGAGATCCAGGTGAACGGAGGCACTGTGGCCG
AGAAGCTGGACTGGGCCCCGCGAGAGGCTTGAGCAGCAGGTACCTGTGAACCAAGTGTGGGCGAGGATGAGATGA
TCGACGTCATCGGGGTGACCAAGGGCAAAGGCTACAAAGGGGTACCAAGTCGTTGGCACACCAAGAAGCTGCCCC
GCAAGACCCACCGAGGCCTGCGCAAGGTGGCCTGTATTGGGGCATGGCATCCTGCTCGTGTAGCCTTCTCTGTGG
CACGCGCTGGGCAGAAAGGCTACCATCACCGCACTGAGATCAACAAGAAGATTTATAAGATTGGCCAGGGCTACC
TTATCAAGGACGGCAAGCTGATCAAGAACAATGCCTCCACTGACTATGACCTATCTGACAAGAGCATCAACCCTC
TGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATGACTTTGTCTATGCTGAAAGGCTGTGTGGTGGGAACCAAGA
AGCGGGTGCTCACCTCCGCAAGTCCTTGCTGGTGCAGACGAAGCGCGGGCTCTGGAGAAGATTGACCTTAAGT
TCATTGACACCACCTCCAAGTTTGGCCATGGCCGCTTCCAGACCATGGAGGAGAAGAAAGCATTTCATGGGACCAC
TGAAGAAAGACCGAATTGCAAAGGAAGAAGGAGCTTAATGCCAGGAACAGATTTTCAGTTGGTGGGCTCTCAAT
AAAAGTTATTTTCCACTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6062

MSHRKFSAPRHGSLGFLPRKRSSRHGKVKSF PKDDPSKPVHLTAFLGYKAGMTHIVREVDRPGSKVNNKEVVEA
VTIVETPPMVVVGIVGYVETPRGLRTFKTVFAEHISDECKRRFYKNWHKS KKAFTKYCKKWQDEDGKKQLEKDF
SSMKKYCQVIRVIAHTQMRLPLRQKKAHLMEIQVNGGTVAEKLDWARERLEQQVPVNQVFGQDEMIDVIGVTKG
KGYKGVTSRWHTKKLPRKTHRGLRKVACIGAWHPARVAFS VARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIK
NNASTDYDLSDKSINPLGGFVHYGEVTNDFVMLKGCVVGTKKRVLT LRKSLLVQTKRRALEKIDLKFIDTTSKFG
HGRFQTMEEKKAFMGPLKKDRIAKEEGA

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FIGURE 6063

CCCCAGGGGTTCTCCAAGATGGCGGCGCAGAGGAGGAGCTTGCTGCAGAGTGAGCAGCAGCCAAGCTGGACAG
ATGACCTGCCTCTCTGCCACCTCTCTGGGGTTGGCTCAGCCTCCAACCGCAGCTACTCTGCTGATGGCAAGGGCA
CTGAGAGCCACCCGCCAGAGGACAGCTGGCTCAAGTTCAGGAGTGAGAACAACCTGCTTCTGTATGGGGTCTTCA
ACGGCTATGATGGCAACCGAGTGACCAACTTCGTGGCCAGCGGCTGTCCGCAGAGCTCCTGCTGGGCCAGCTGA
ATGCCGAGCAGCCGAGGCCGATGTGCGGCGTGTGCTGCTGCAGGCCCTTCGATGTGGTGGAGAGGAGCTTCCTGG
AGTCCATTGACGACGCCTTGGCTGAGAAGGCAAGCCTCCAGTCGCAATTGCCAGAGGGAGTCCCTCAGCACCAGC
TGCTCTCTCAGTATCAGAAGATCCTTGAGAGACTCAAGACGTTAGAGAGGGAAATTCGGGAGGGGCCATGGCCG
TTGTGGCGGTCTCTTCTCAACAACAAGCTCTACGTGCGCAATGTGCGGTACAAACCGTGCACTTTTATGCAAAATCGA
CAGTGGATGGGTTGCAGGTGACACAGCTGAACGTGGACCACACCACAGAGAACGAGGATGAGCTCTTCCGTCTTT
CGCAGCTGGGCTTGGATGCTGGAAGATCAAGCAGGTGGGGATCATCTGTGGGCAGGAGAGCACCAGCGCGGATCG
GGGATTACAAGGTTAAATATGGCTACACGGACATTGACCTTCTCAGCGCTGCCAAGTCCAAACCAATCATCGCAG
AGCCAGAAATCCATGGGGCAGCCGCTGGATGGGGTGACGGGCTTCTTGGTGCTGATGTCGGAGGGGTGTACA
AGGCCCTAGAGGCAGCCCATGGGCTGGGCAGGCCAACCAGGAGATTGCTGCGATGATTGACACTGAGTTTGCCA
AGCAGACCTCCCTGGACGCAGTGGCCAGGCCGTCGTGGACCGGGTGAAGCGCATCCACAGCGACACCTTCGCCA
GTGGTGGGGAGCGTGCCAGGTTCTGCCCCCGGCACGAGGACATGACCCTGCTAGTGAGGAACCTTTGGCTACCCGC
TGGGCGAAATGAGCCAGCCACACCGAGCCAGCCCGAGCTGCAGGAGGACGAGTGTACCCTGTGTCTGTGCCAT
ACTCCAGCGCCAGAGCACCAGCAAGACCAGCGTGACCTCTCCCTTGTCATGCCCTCCAGGGCCAGATGGTCA
ACGGGGCTCACAGTGCTTCCACCCTGGACGAAGCCACCCCCACCTCACCAACCAAAGCCCGACCTTAACCCCTGC
AGTCCACCAACACGCACACGCAGAGCAGCAGCTCCAGCTCTGACGGAGGCCTCTTCCGCTCCCGGCCCGCCACT
CGCTCCCGCTTGGCGAGGACGGTCGTGTTGAGCCCTATGTGGACTTTGCTGAGTTTTACCGCCTCTGGAGCGTGG
ACCATGGCGAGCAGAGCGTGGTGACAGCACCGTAGGGCAGCCGGAGAATGCAGCCCAAGCAGGGCCTGGCATGGG
GCAGGACAGGGTCCAGCCTTTTCTTAACATCTGCCTGTGCCACAACGGCCAGCAGGTGCCCATCTCTGCCAC
AGCAGACTCTGTCCCATGGCTCTCCGGGCAGTAGAGTGTGTGAGTGCAGACTGGACCTGTGGTTCTATACCTTGTC
ACCACCCGGGAAGCTGAAGGCCACTTCTCCAGATGGCCTCAGCCAGGACCATCGCCCTTTCTCAGAGCAGAGG
GCCAGGTATAGAAACCGCAGTGGGCCTGCAAGCCGCCCGAGCCTCCCCAGCAGCCTCTACAGAGCAGGAAGAGG
CGCCCTGTGAACCTGAGTGTTCAGGCCCAGCAGACCCTGCTGTCCCAAGCCACCCCTCTCCACCATCACC
TCCCTCACCTCGGGACAGTAGCCCTCCACTTCTCCAGCCTCTCAGCCCTGTGCTCCTGCATCCAGAGTGGAAACC
AGGCTGGTGTCCGCATCTGTCCCTGGGCCCCACCCCTGGACCTGCCTTGGTTGTGTATCTGTTGTAAACGTTCA
GGAGGACCAGGGCAGCATCTGGGGCTGGGATGGCCACAGAAGGGGCAGGCCAGGTGGAAAGGAGCCAGGGGGAA
GTGGTCTAAGAGACCTGGAACCTGCCAGAGGATGGCGGCTGGGCTTCCCCAGAGCCAGGCGTGCGGGAGAGGTGA
GGACTGGCCCCGGTGGGCTGAGGCAGGGGCCGCTGTGCTCAGGCCTGAGCCAGGGTGAGCTGGTGCCTGCCCTTGC
ATTTTCTTCTGGTGCTGTGAAGACCATAGGCTGGCAGGCAGCTGAGATGAACCTGTCTTTACCACTGATGAGGGG
CCTCTGCCGCTGAGGGTAGCAAGCAGGGGTTGTGAGTCAGGCTGGGGGACTTGTTTGAAGAAAGAGGAGTGGA
AAATGGTTCAGGAGGGAAGAGGTTCTTTGAGACACAGTACCTGGGAGGCATAGGAGAAGGGTCGGGCCAGCCC
AGCCCAGGGCCTGAGTTAGACTATTTCCACATGTTCTCTGCCTTCAGTGGGAGGGGGTGCCACCAGGGCTGTC
GGCCAGGATTGCCACTCCTGTTTCAGAGGAAGCAGGCCGAGAGACTTGACCTTGGCCAAGCCACACAATCAGTG
GGGCAGCCAGAGCTCAGACCTGAGCCATTTTGTGAGTATCCAGGACCCCCCGGATTCTCCAGCCCTCCCCATCT
CCCAGTCTCCCTGCCCCCATGCCCCAGACCGGCCACCAGGGACTAGCCGCTGTGCGCACAGCCTCTGGGGTGCT
TGGTCTCTGCGAAGTCAAAGGCCTGACAGCTCTGTGGCCTGGGAATCCATTTTCTGCGGCAGAGCAGGGCCTGG
TGTGGAACCAGGGAGCTGTGGGAAGCCACAGCAGAAATGGAAGAAAAACAGGTCTCAGCCCAGGGTCTCGCTCA
CTCCCTACTCCCCACTTTGAAGCCATCTCTGTTCTGCAGGTGAGAGGATTTAAAGTCAGTCACAAAGGCTTGGG
AACAAAAGGAATTC

6568/6881
FIGURE 6064

TGATGGGTGACCCGGGGAGAGGTACCCGGCCAGAGGCGAGTCTGCGGAGTGGTAGCGCGCACGGCCTGCGGTGT
GACACCCAGCCCCCTGCCAGTCCCCCATGGCCCCGTGGAGCCGAGAGGCGGTGCTGAGTCTCTATCGGGCTCTGTT
GCGCCAGGGCCGACAGCTTCGCTACACTGATCGAGACTTCTACTTTGCCTCCATCCGCCGTGAATTCCGAAAAAA
TCAGAAGCTAGAGGACGCTGAGGCCCGGGAGAGGCAGCTGGAGAAGGGCCTGGTCTTTCTCAACGGCAAATTGGG
GAGGATCATTTAGGATCCTCCAAGGGAAAGAGGACAAAGGTGCCTTCTGTAGACACTCCTGCTCTCTTCCATCCC
CATCTTACAGATGTATTAAAGAGCCTCAGATGAGCAATGGCAGGCGCTGGTGAGCGCAAAGGCAAGAAGGATGAC
AATGGCATTGGCACGGCCATTGACTTTGTGCTCTCCAATGCCGGCTGGTGCTGGGGGTGGGTGGAGCGGCCATG
CTGGGCATCGCCACGCTGGCAGTTAAGCGGATGTACGATCGGGCGATCAGTGCCCCCTACCAGCCCCACCCGCTG
AGCCATTGCGGGAAAAGGAGCTGGGAAGAACCCAAGTGGATGGGCTCCCCACGACTGCTGAACAGGGACATGAAG
ACGGGCCTGAGCCGGTCTTGCAGACCCTTCCACAGACTCCTCCACCTTCGACACAGATACATTCTGCCCCGCC
CGGCCCCAAGCCAGTGGCCAGGAAGGGCCAGGTAGACTTGAAGAAGTCACGACTCCGCATGTCCCTGCAGGAGAAA
CTTCTTACTTACTACCGGAACCGGGCAGCCATCCCTGCTGGAGAGCAGGCTCGGGCCAAGCAAGCTGCTGTGGAC
ATATGTGCCGAGCTCCGGAGCTTCTGCGGGCCAAGTTGCCTGACATGCCGCTTCGGGACATGTACTTGAGTGGC
AGCCTCTACGATGACCTGCAGGTGGTGACAGCTGACCACATCCAACCTCATTGTGCCCCCTTGTGCTGGAGCAGAAC
CTGIGGTCATGTATTCTGGTGAAGACACCATCATGAATGTCCCTGGCTTCTTCTGGTGCGTCTGAGAATCCA
GAGTACTTCTCTGTTGGGAGCAGTTACTGGGACCGCTGTGTAGTAGGGGGCTACCTCTCTCAAAGACAGTCGCA
GATACATTTGAGAAGGTAGTGGCTGGCTCCATCAATTGGCCAGCCATAGGGTCCCTCTTGGACTATGTGATCCGC
CCGGCCCCACCCCCAGAAGCCCTCACACTGGAGGTGCAGTATGAGCGTGACAAACATCTCTTCATTGACTTCTTG
CCATCAGTGACCCTCGGTGACACAGTCTTGGTGGCCAAACCACACCGGCTAGCCCAGTATGACAACCTGTGGCGG
CTGAGCCTGCGTCCCGCGGAGACGGCAGCCTGCGGGCTCTGGACCAGGCTGACTCGGGCTGCCGATCTCTGTGC
CTCAAGATCCTCAAGGCCATATGCAAGTCCACCCGGCTCTGGGCCACCTCACTGCCAGCCAGCTAACCAATGTC
ATCCTCCACTTGGCCCAGGAGGAGGCTGACTGGTCTCCGGATATGCTGGCCGACCGTTTCTGACGGCCTTGAGG
GGACTTATCAGCTACTTAGAGGCTGGAGTCTGCCCAGTGCCCTAAACCCCAAGGACAAGGCCTTGAAGGAACGC
AGCCTTAGACATCAGGTGAGGATGATGGAGGTAGACAGTCGACTGAATGTCAGCTGGAAAATCCAGTCACTAGTT
GGGGTTTGGTGGCCATGTTTTCTACCCAGACAGGCCCTGCTTTTCTAGGATGTGGCCTTAGAGCAAGAACAGACC
CAACAGCCAGCCCTTCATCCTCCAGCGTCTGCCATAGGAATGTGAGAGGGGTGTTTGTGAGCGCTCCGGGCACG
GCCAGAGGGCAAGTGAGCATGCACGGACCTCTCCCCCTGTCTGTTTCTACCCAGCACCTGGGGAGATCGGTG
CTACCAAGGAAGAGAGCACACAGATAAGACAGAGGGGAGGAGGTGGGCATTTCTACATTCTCCTTGTGTTGCCG
CTGCTGAGATTGCAGTATTTATTGCAATGTAAATGTATCCTGAAGGTGGGGAGGAATGTTTAAATCTACCATGTCC
GTGTGTC

6569/6881
FIGURE 6065

GAAAACTCAGGCTTGGAACAGCACCTCGCGCGATAACCTGGCGTCCTCGGCCTTCACAATAAAACTCTTCGCCG
GAAAACGACCTTTCCCCGCCCACTGCGCTGACACCGGAAGCGAGGCGTGTCTGGGAGATCACTCCGCGCTCCGGC
GGCGAAGGAAAGAACGGACTCTGATCATAGAAGCCTAGTAAAGTAGTACACCTCTCTCCTTTTCGTGAGGCCATAA
GAACAAACTCCTTTTCTCGTCACAGCTACGCCCTGGGCATAAACGGTTGGGGCGTCAAAGGGAGGGAGGGGAAGGG
AGCGGGCGGGAGGAGACGGTCACGTGGTCGCGGCGGAAGGATGCGTCTGTGCTGCGTCCCCATAGAGACGAAGTC
TATAAAGGGCCGGCGGGCGGCCACGGCAGCCATTTCTACTTTGCCCCGCCACAGATGTAGTTTTCTCTGCGCGTG
TGCGTTTTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCGTATTAGGGGCGAGAGTGCCTGCGGCAGC
ATTGGCCTTTTGACGGGCGGCAGCAGCACCAGGCTCTGCAGCGGCAACCCCCAGCGGCTTAAGCCATGGCCAGCG
TTGCTGTAACCGACAAAGACACCTTCGAATTAAGCACATTCTCGATTCCAGCAAAGCACCGCAACATGACCGAA
ATGAGCTTCCTGAGCAGCGAGGTGTGGTGGGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAA
GAAAGCCTAGGTCTCTTAGATGATTACCTGGAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAG
GCTAAGGCGGGCTCCTCCGAATGGCTGGCTGTGGATGGGTGGTTCAGTCCCTCCAACAACAGCAAGGAGGATGCC
TTCTCCGGGACAGATTGGATGTTGGAGAAAATGGATTGAAGGAGTTCGACTTGGATGCCCTGTTGGGTATAGAT
GACCTGGAACCATGCCAGATGACCTTCTGACCACGTTGGATGACACTTGTGATCTCTTTGCCCCCTAGTCCAG
GAGACTAATAAGCAGCCCCCCCCAGACGGTGAACCCAATTGGCCATCTCCCAGAAAGTTTAAACAAAACCCGACCAG
GTTGCCCCCTTCACCTTCTTACAACCTCTTCCCCCTTTCCCCAGGGGTCTGTCTCCTCCACTCCAGATCATTCCCTT
AGTTTAGAGCTGGGCAGTGAAGTGGATATCACTGAAGGAGATAGGAAGCCAGACTACACTGCTTACGTTGCCATG
ATCCCTCAGTGCTAAAGGAGGAAGACACCCCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTAT
CTGGGGTCTCCTCAGCACAGCCCCTTACCAGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGT
GGGTCTGCCCCGTCCCAAACCTTACGATCCTCCTGGAGAGAAGATGGTAGCAGCAAAAGTAAAGGGTGAGAACTG
GATAAGAAGCTGAAAAAATGGAGCAAAACAAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAG
GAGGCTCTTACTGGTGAGTGCAAAGAGCTGGAAAAGAAGACGAGGCTCTAAAAGAGAGGGCGGATTCCCTGGCC
AAGGAGATCCAGTACCTGAAAGATTTGATAGAAGAGGTCCGCAAGGCAAGGGGGAAGAAAAGGGTCCCCTAGTTG
AGGATAGTCAGGAGCGTCAATGTGCTTGTACATAGAGTGCTGTAGCTGTGTGTTCCAATAAATTATTTGTAGGG
AAAGT

6570/6881
FIGURE 6066

GTCGGTTCGCAGCCCGCTCGGGCCCGTTCGCGCCCGTCTGTGCGCCACGTCCCGCGGGGTGGCGGGCGCGCTGCG
GCCCTTGGTGCAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGAAGCGGCCCTTCCTCAGCCG
GGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCCTTTGGTCGCCTCCGTGGGCCTCAATGTCCTTGCTTCTGTTTG
TTATTCCCACACAGACGTCAAGGTGCCTGACTTCTCTGAATACCGCCGCCTTGAAGTTTTAGATAGTACGAAGTC
TTCAAGAGAAAGCACCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAACTACTGTGGGTGTCGCATA
TGCTGCCAAGAATGCCGTACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATGTGTTGGCCCTGGCGAAAAAT
CGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAGGCAAAACCCCTGTTTGTACG
TCATAGAACCCAGAAGGAAATTAAGCAGGAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCT
AGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTGCACATCATCTTGTTGTGTACCCATTGCAAA
TGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGG
TCCTGCTACTCTCAACCTGAAGTCCCCACGTATGAGTTCACCAAGTGACGATATGGTGATTGTTGGTTTAGAGACT
TGGACTCAAGTCATAGGCTTCTTTCAGTCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACT
TGAAGTTGATTTGAAATATGTAAGAATTGATGATGATTTGCAAACATTAATGTGAAATAAATTGAATTTAATGT
TGAATACTTTCAGGCATTCACTTAATAAAGCCACTGTTAAGCACTGTTATGCTCAGTCATACACGCGAAAGGTAC
AACGTCCTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTGTC

6571/6881
FIGURE 6067

MSASADVLALAKIEIKLSDIPEGKNMAFKWRGKPLFVRHRTQKEIKQEAAVELSQLRDPQHDLDRVKKPEWVILI
GVCTHLGCVPIANAGDFGGYYCPCHGSHYDASGRIRLGPATLNLEVPTYEFTSDDMVIVG

6572/6881
FIGURE 6068

CCATGGCGGCTGGAGGCGATCATGGTTGCGCCGACAGCTACCGCTCACCTCTTGCCTCCCGCTATGCCAGCCCGG
AGATGTGCTTCGTGTTTAGCGACAGGTATAAATTCGCGACATGGCGGCAGCTGTGGCTGTGGCTGGCGGAGGCCG
AGCAGACATTGGGTTTGCTATCACAGATGAACAAATCCAGGAGATGAAATCAAACCTGGAGAACATAGACTTCA
AGATGGCAGCTGAGGAAGAGAAACGTTTACGACATGATGTGATGGCTCACGTGCACACATTTGGCCACTGCTGTC
CAAAAGCTGCAGGCATTATTACCTTGGTGCTACTTCTTGCTATGTTGGAGACAATACTGACTTGATTATTCTTA
GAAATGCACCTTGACCTGCTTTTGCCAAAGCTTGCCAGAGTGATCTCTCGGCTTGCCGACTTTGCTAAGGAACGAG
CCAGTCTACCCACATTAGGTTTACACATTTCCAGCCTGCACAGCTGACCACAGTTGGGAAACGTTGCTGTCTTT
GGATTCAAGGATCTTTGCATGGATCTCCAGAACTTGAAGCGTGTCCGAGATGACCTGCGCTTCCGGGGAGTAAAGG
GTACCACTGGCACTCAGGCCAGTTTCTTGCAGCTCTTTGAGGGAGATGACCATAAGGTAGAGCAGCTTGACAAGA
TGGTGACAGAAAAGGCAGGATTTAAGAGAGCTTTTCATCATCACAGGGCAGACATATACACGAAAAGTGGATATTG
AAGTACTGTCTGTGCTGGCTAGCTTGGGGGCATCAGTGCACAAGATTTGCACCGACATACGCCCTCCTGGCAAACC
TCAAGGAGATGGAGGAACCCCTTTGAAAAACAGCAGATTGGCTCAAGTGCGATGCCATATAAGCGGAATCCCATGC
GTTCAGAACGTTGCTGCAGTCTTGCCCGCCACCTGATGACCCTTGTATGGACCCGCTACAGACAGCATCTGTCC
AGTGGTTTGAACGCACACTGGATGATAGTGCCAACCGACGATCTGTTTGGCCGAGGCATTTCTTACCGCAGATA
CTATATTGAATACGCTGCAGAACATTTCTGAAGGATTGGTCGTGTACCCCAAAGTAATTGAACGGCGCATTCGGC
AAGAGCTGCCTTTTCATGGCCACAGAGAACATCATCATGGCCATGGTCAAAGCTGGAGGTAGCCGCCAGGATTGCC
ATGAGAAAATCAGAGTGCTTTCTCAGCAGGCAGCTTCTGTGGTTAAGCAGGAAGGGGGTGACAATGACCTCATAG
AGCGTATCCAGGTTGATGCCTACTTCAGTCCCATTCACTCCAGTTGGATCATTACTGGATCCTTCTTCTTTCA
CTGGTCGTGCCTCCCAGCAGGTGCAGAGATTCTTAGAAGAGGAGGTGTATCCCTGTAAAACCATATGAAAGCG
TGATGAAGGTGAAAGCAGAATTATGTCTGTAGAGTTGGAAGAGAATTAAACGAAAATCATTGTTAATTGCTGAGG
CATGAAAATTGTGTTACTATAACGCCTTATTTTACCTCGAGAATTGTTACCTTAAATTAGTACAGCACTTTCTTC
TTCCCATGGTGCTTTCTGTTTCTCAGTCTCACATTTCTCAACAAGGCAAAAACAAAGAGCGTTGAAGTTGACTC
TGCTCTTGCATAGTAAATGTAGTTTCACTTGAAAAA

6573/6881
FIGURE 6069

MAAGGDHGSPDSYRSPLASRYASPEMCFVFS DRYKFRTWRQLWLWLAEAEQTLGLPITDEQIQEMKSNLENIDFK
MAAEEKRLRHDMAHVHTFGHCCPKAAGIHLGATSCYVGDNLDLIILRNALDLLLLPKLARVISRLADFAKERA
SLPTLGFTHFQPAQLTTVGKRCCLWIQDLCMDLQNLKVRDDLRFGRGVKGTGTQASFLQLFEGDDHKVEQLDKM
VTEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEEPFQKQIGSSAMPYKRNPMR
SERCCSLARHMLTMLVMDPLQTASVQWFERTLDDSANRRICLAEAFLTADTILNTLQNISEGLVVYPKVIERRIQ
ELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQAASVVKQEGGDNDLIERIQVDAYFSPHSQLDHLDPSSFT
GRASQQVQRFLEEVYPLLKPYESVMKVKAELCL

6574/6881
FIGURE 6070

GGGTGGGAGGAGCCAGCGGCCGGGGAGGTTCTAGTCTGTCTGTCTTGGCGCAGCCGCCCCCTTCTGCGCGGTCA
CGCCGAGCCAGCGCCTGGGCCTTGAACCGGGCCGTAGCCCCCAGTTTCGCCACCACCTCCCTACCATGGACC
CCCGCAAAGTGAACGAGCTTCGGGCCTTTGTGAAAATGTGTAAGCAGGATCCGAGCGTTCTGCACACCGAGGAAA
TGCGCTTCTTGAGGGAGTGGGTGGAGAGCATGGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTAAATCAGAAG
AAAATACCAAGGAAGAAAAACCTGATAGTAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGG
AAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAA
ATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATG
GTGAATCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCA
AGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGTGCCATCCGAGACTGTGACAGAGCCATTGAAATAA
ATCCTGATTCAGCTCAGCCTTACAAGTGGCGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGCAGCCC
ATGATCTTGCCCTTGCTGTAAATTGGATTATGATGAAGATGCTAGTGCAATGCTGAAAGAAGTTCAACCTAGGG
CACAGAAAATTGCAGAACATCGGAGAAAGTATGAGCGAAAACGTGAAGAGCGAGAGATCAAAGAAAAGATAGAAC
GAGTTAAGAAGGCTCGAGAAGAGCATGAGAGAGCCAGAGGGAGGAAGAAGCCAGACGACAGTCAGGAGCTCAGT
ATGGCTCTTTCCAGGTGGCTTTCTGGGGGAATGCCTGGTAATTTTCCCGAGGAATGCCTGGAATGGGAGGGG
GCATGCCCTGAATGGCTGGAATGCCTGGACTCAATGAAATTCCTAGTGATCCAGAGGTTCTTGACGCCATGCAGG
ATCCAGAAGTTATGGTGGCTTTCCAGGATGTGGCTCAGAACCAGCAAATATGTCAAAATACCAGAGCAACCCAA
AGGTTATGAATCTCATCAGTAAATTGTCAGCCAAATTTGGAGGTCAAGCGTAATGTCTTCTGATAAATAAAGCC
CTTGCTGAAGGAAAAGCAACCTAGATCACCTTATGGATGTGCAATAATACAAACCAGTGTACCTCTGACCTTCT
CATCAAGAGAGCTGGGGTGCTTTGAAGATAATCCCTACCCCTCTCCCCAAATGCAGCTGAAGCATTTTACAGTG
GTTTGCCATTAGGGTATTCAATTCAGATAATGTTTTCCTACTAGGAATTACAACTTTAAACACTTTTAAATCTT
CAAAATATTTAAACAAATTTAAAGGGCCTGTAAATTCCTATATTTTCTTTACTAATCATTTTGGATTTTTTC
TTTGAATTATTGGCAGGGAATATACTTATGTATGGAAGATTACTGCTCTGAGTGAAATAAAAGTTATTAGTGCGA
GGCAAACATAACTCATTGAGGATAAAGTTTGTGTTGGATATGTGGTTCCTGATGCATTTTGACTTGTCTTTTAA
AATGCTTTATCTTTTTCTTTAAAGATTTATTTCATAAACTAATTGGGACCACCCGTATTTAGTAGGACCTGG
GTAGGGATTGGAAGTACTTGGCAGGGCAGCAGCAATCTTGCTGTGTTTGATATAACATGCATCCTTGGGCAGGTT
GCCCTTAAATCTTACACTGTGGTGAAGGGATGTTTTTTTTGTAAATGCTGCAGTAGAGTTGGAGTACTTAGTTCTC
TTGTTGTCCAGTATATCTAATAAGTGTTTTTCATATTATTTCCACGTAAGGGAATAAGGTAGTACTTTTCTTTT
TATATTTCTATGCTTAAATTTCTCTTTCCCTAGTCAAAAATGGCCAAATCTGTGTTTGTCTTCTGCTTGTACAT
TTGTCTCCCTTACTTTTCTTGAGCTAAAGACAGGCTTTTTCCACCGGCATCATCACTGCTATCATCATTAACAGC
GTAATTATACAAGCATATTTAATGCTGAGTTAATTTAATATGTAATACATATGGTAATTGTAGGGTAATACCCA
CAACAACCTGTAGTTTCTTACTTGGCCAAGAGAATGCTTATTTAAGTGTTAGACTTCCATTCTGGCAAAATCTTGC
CTTAICAGAAGACATTGGAAGAGGGATTCCCTTTGGTGTGTTGGTCTTCTACTTAGAAAAACCTATTGCAGTTAG
TTTATCTTGTAGTATTCATCTTTGTATTCTGAAGATAAGGTTTGAATTAAATTGATACACAGAGGGGAACCGA
TTTTTTTTATCCAATGTGAATTATAAATGAGATAATCCACAGTTATTCAATTGTGGAGTGTGAGACTATGAAAG
ACTCATTGTCTTTGTATTACGCTCTTAAATAGTGTAATATATCCCCACCTCTGCTTGTCTTTCTTTCCCTCCCT
CCAATGATAAAGAAAATGATAAATTTCTGTTGTGCATTCAATTCCTATTTTAAATAAGACTAAGTATAGGCATT
GTACCTGACATTGCTACGTTTCTACAGTGTTCATTTAAAGTGCTAGTGTTTAAAAACATTTTCAAGGGATAA
GGCCTTCTGTACTTTGCTTATTTGAAGAATCAGTGGTAGGAGCAGTGAAGTAAATCTATGGAGTACATTTCTAA
AATACCACATTTCTGAAATCATAAATAAGTTTTATTAGGTTCTAACCCTTTGCTGTACACAAGCAGACAGAAATG
CATCTGTTACATAAATGAGAAAAAGCTATTATGCTGATGGAGCATGCTTTTTAAATCCTTTAAAAACACTCACCA
TATAAATTTGCATTTGAGCTTGTGTGTTCTTTTGTAAATGTGTAGAGTTCTCCTTTCTCGAAATTGCCAGTGTGT
ACTTGGCTTAACCAAGAACAGTTTCTTCTGGATTCCCTATTGATTATTTAACCTAATTATATTCTAATATTG
CAAAATATTACCATAAGTGGTAAAAGTAAATTCCTCTTCTGAAAAAAAAAAAAAAAAAAAAA

6575/6881
FIGURE 6071

MDPRKVNELRAFVKMCKQDPSVLHTEEMRFLREWVESMGGKVPPATQKAKSEENTKEEKPD SKKVEEDLKADEPS
SEESDLEIDKEGVIEPDTDAPQEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFTDAIKLNPRILAIL
YAKRASVFKLQKPNAAIRDCDRAIEINPDSAQPYKWRGKAHRLLGHWEEAAHDLALACKLDYDEDASAMLKEVQ
PRAQKIAEHRRKYERKREEREIKERIERVKKAREEHERAQREEEARRQSGAQYGSFPGGFPGGMPGNFPGGMPGM
GGGMPGMAGMPGLNEILSDPEVLAAMQDPEVMVAFQDVAQN PANMSKYQSNPKVMNLI SKLSAKFGGQA

6576/6881
FIGURE 6072

CCCCAAATGGCGGCAGCGATGGGATGTGGATACCCCGAGCGGCACCAACAGCGGCGCGGGCAAGAAGCGCTTTGAA
GTGAAAAAGTGGAATGCAGTAGCCCTCTGGGCCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAACCAC
ATTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTACTGTTCGCATGGGGA
GTCTGTAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAAC
AGAGAGTGGGAATCCAAAAGTATGGGCACTAGGAAAAGACTTCTTCCATCAAGCTTAATTGTTTTGTTATTTCAT
TTAATTGACTTTCCCTGCTGTTACCTAATTACAAATTGGATGGAAGTGTGTTTTTTCTGCTTTGTTTTTTCAGT
TTGCTGTTTCTGTAGCCATATTGTATTCTGTGTCAAATAAAGTCCAGTTGGATTCTGG

6577/6881
FIGURE 6073

MAAAMDVDTPSGTNSGAGKKRFEVKKWNAVALWAWDIVVDNCAICRNHIMDLCEQANQASATSEECTVWAGVC
NHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH

6578/6881
FIGURE 6074

GCTCTTTCTCAGTGACCGGGTTCTAGGCTTAGGCGCAGACGGGTTAGGGGAGCCAACATGCCAGTGCCCCGGAGC
TGGGTTTGTGCAAACTTACGTGACCCCGCGGAGATCCTTTGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTG
ATCGAAGAGTATGGGCTCCGGAATAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATAGAGGATTTT
TTAGAGAGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATC
CGCCAGCGCCATTTCAGGGTCCGCAAGCAGGTGGTGAACATCCCGTCTTCATTGTCCGCCTGGATTCCCAGAAG
CACATCGACTTCTCTGTGCTCTCCCTATGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAG
GGCCAGGGTGGGGCTGGGGCTGGAGACCACAAGGAGGAGGATTAAGCCCACCTGTCCCTCCTGGGCTGCTGCATT
GTCTAGTTTTCCTGCCAAATAAACAGGATCAGCGCTTTAAAAAAAAAAAAA

6579/6881
FIGURE 6075

ATGGCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGGGACAGCTGAGTTTC
AAAGGCAAGAGCCTCAAACCTCAACACTGCAGAAGATGCTAAAGATGTGATTAAAGAGATTGAAGACTTTGACAGC
TTGGAGGCTCTGCGTCTGGAAGGCAACACAGTGGGCGTGGAAGCAGCCAGGGTCATCGCCAAGGCCTTAGAGAAG
AAGTCGGAGTTGAAGCGCTGCCACTGGAGTGACATGTTACGGGAAGGCTGCGGACCGAGATCCCACCAGCCCTG
ATCTCACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGCGACAACGCATTTCGGG
CCCGACGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCCTGCTTCACCTGCAGGAACTCAAGCTCAAC
AACTGTGGCATGGGCATTGGCGGCGGCAAGATCCTGGCTGCAGCTCTGACCGAATGTCACCGGAAATCCAGTGCC
CAAGGCAAGCCTCTGGCCCTGAAGGTCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTG
GCAGAAGCTTTTAGGGTCATCGGGACCTGGAGGAGGTCCACATGCCACAGAATGGGATCAACCACCTTGGCATC
ACTGCCCTGGCCCAGGCTTTTCGTGTCAACCCCTGCTGCGGGTCATCAACCTGAATGACAACACCTTCACTGAG
AAGGGCGCCGTGGCCATGGCCGAGACCTTGAAGACCTTGCGGCAGGTGGAGGTGATTAAATTTGGGGACTGCCTG
GTGCGCTCCAAGGCTGCAGTTGCCATTGCAGATGCCATCCGCGCGGCCCTGCCAAGCTAAAGGAGCTGAACTTG
TCATTCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAAGCTGAGCTGGAGAAG
CTGGACCTGAATGGCAACACCCTGGGAGAAGAAGGCTGTGAACAGCTTCAGGAGGTGCTGGAGGGCTTCAACATG
GCCAAGGTGCTGGCGTCCCTCAGTGATGACGAGGACGAGGAGGAGGAGGAAGGAGAAGAGGAAGAAGAGGAA
GCAGAAGAAGAGGAGGAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAGGAGGAGGAAGAAGAGCCTCAGCAG
CGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCAGGAAGATTCTGGACCCTAACACTGGGGAGCCAGCTCCCGTG
CTGTCTCCCCACCTCCTGCAGACGTCTCCACCTTCCTGGCTTTTCCCTCTCCAGAGAAGCTCCTGCGCCTAGGG
CCCAAGAGCTCCGTGCTGATAGCCCAGCAGACTGACACGTCTGACCCCGAGAAGGTGGTCTCTGCCTTCCTAAAG
GTGTCATCTGTGTTCAAGGACGAAGCTACTGTGAGGATGGCAGTGCAGGATGCAGTAGATGCCCTGATGCAGAAG
GCTTTCAACTCCTCGTCCTTCAACTCCAACACCTTCCTCACCAGGCTCCTCGTGACATGGGTCTGCTCAAGAGT
GAAGACAAGGTCAAGGCCATTGCCAACCTGTACGGCCCCCTGATGGCGCTGAACCACATGGTGCAGCAGGACTAT
TTCCCCAAGGCCCTTGACCCCTGCTGCTGGCGTTTCGTGACCAAGCCCAACAGCGCCCTGGAATCCTGCTCCTTC
GCCCGCCACAGTCTGCTGCAGACGCTGTACAAGGTCTTAG

6580/6881
FIGURE 6076

MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLNATAEDAKDVIKEIEDFDSLEALRLEGNTVGVEAARVIAKALEK
KSELKRCHWSDMFTGRLRTEIPPALISLGEGLITAGAQLVELDLSDNAFGPDGVQGFEALLKSSACFTLQELKLN
NCGMGIGGGKILAAALTECHRKSSAQGKPLALKV FVAGRNRLENDGATALAEAFRVIGTLEEVHMPQNGINHPGI
TALAQAFVNP LLRVINLNDNTFTEKGAVAMAETLKT LRQVEVINFGDCLVRSGAVAIADAIRGGLPKLKE LNL
SFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCEQLQEVLEGFNMAKVLASLSDDEDEEEEEEGEEEEEE
AEEEEEEDEEEEEEEEEEEEEEPQQRGQGEKSATPSRKILD PNTGEPAPVLSPPPADVSTFLAFPSPEKLLRLG
PKSSVLIAQQTDTSDPEKVVSAFLKVSSVFKDEATVRMAVQDAVDALMQKAFNSSSFNSNTFLTRLLVHMGLLKS
EDKVKAIANLYGPLMALNHMVQQDYFPKALAPLLLAFVTKPNSALESCSFARHSL LQTLYKV

6581/6881
FIGURE 6077

CGGGAGGCGAGGTGCGCGAGCCGAGTCCGGGGCACGATGTCCGACGCGGGCGGGCGGAAAGAAGCCGCCTGTGGAC
CCGCAGGCAGGACCCGGTCCGGGGCCGGGGCGCGCAGCTGGGGAAAGGGGCCTGTGGGGTCTTCCCCCTGGTC
CTGAAGAAGCTGATGGAGAACCCCCCGCGCGAGGCGCGCCTCGATAAGGAAAAGGGGAAGGAAAAGCTGGAGGAG
GACGAGGCCGCGAGCCGCCAGCACCATGGCTGTCTCAGCCTCCCTCATGCCACCCATCTGGGACAAGACCATCCCA
TATGATGGCGAATCTTTCCACCTGGAGTACATGGACCTGGATGAGTTCTGTGCTGGAGAATGGCATCCCCGCCAGC
CCCACCCACCTGGCCCACAACCTGCTGCTGCCTGTAGCAGAGCTAGAAGGGAAGGAGTCTGCCAGCTCTTCCACA
GCATCCCCACCATCCTCCTCCACTGCCATCTTTCAGCCCTCTGAAACCGTGTCCAGCACAGAATCTTCCCTGGAG
AAGGAGAGGGAGACTCCCAGTCCCATCGACCCCAATTGTGTGGAAGTGGATGTGAACCTCAATCCGGACCCCGCC
GACCTGGTGCTCTCCAGTGTGCCAGGCGGGGAGCTCTTCAACCCTCGGAAGCACAAGTTTGCTGAGGAGGACCTG
AAGCCCCAGCCTATGATCAAAAAGGCCAAGAAGGTCTTTGTCCCCGACGAGCAGAAGGATGAAAAGTACTGGACA
AGACGCAAGAAGAACAACGTGGCAGCTAAACGGTCACGGGATGCCCCGGCGCCTGAAAGAGAATCAGATCACCATC
CGGGCAGCCTTCCTGGAGAAGGAGAACACAGCCCTGCGGACGGAGGTGGCCGAGCTACGCAAGGAGGTGGGCAAG
TGCAAGACCATCGTGTCCAAGTATGAGACCAAATACGGGCCCTGTAACCCGTGCCCCCGCCCGGGCGGGGTAC
TGCCTGCACCTCAGACCTCTGCCTG

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FIGURE 6078

MSDAGGGKKPPVDPQAGPGPGGRAAGERGLSGSFPLVLKKLMENPPREARLDKEKGKEKLEDEAAAASTMAVS
ASLMPPIWDKTIPYDGESFHLEYMDLDEFLLENGIPASPTHLAHNLLLPVAELEGKESASSSTASPPSSSTAIFQ
PSETVSSTESSLEKERETPSPIDPNCVEVDVNFNPDADLVLSVPGGELFNPRKHKFAEEDLKPQPMIKKAKKV
FVPDEQKDEKYWTRRKNNVAAKRSRDARRLKENQITIRAAFLEKENTALRTEVAELRKEVGKCKTIVSKYETKY
GPL

6583/6881
FIGURE 6079

CATCTTTGTCAGTGCACAAAATGGCGCCCTACAGCCTACTGGTGA CTCTGGCTGCAGAAAGCTCTGGGTGTGCGGC
AGTACCATGTGGCCTCAGTCCTGTGCCAACGGGCCAAGGTGGCGATGAGCCACTTTGAGCCCAACGAGTACATCC
ATTATGACCTGCTAGAGAAGAACATTAAACATTGTTTCGCAAACGACTGAACCGGCCGCTGACACTCTCGGAGAAGA
TTGTGTATGGACACCTGGATGACCCCGCCAGCCAGGAAATTGAGCGAGGCAAGTCGTACCTGCGGCTGCGGCCGG
ACCGTGTGGCCATGCAGGATGCGACGGCCAGATGGCCATGCTCCAGTTTCATCAGCAGCGGGCTGTCCAAGGTGG
CTGTGCCATCCACCATCCACTGTGACCATCTGATTGAAGCCCAGGTTGGGGGCGAGAAAGACCTGCGCCGGGCCA
AGGACATCAACCAGGAAGTTTATAATTTCTGGCAACTGCAGGTGCCAAATATGGCGTGGGCTTCTGGAAGCCTG
GATCTGGAATCATTACACGATTATTCTGGAAAACATATGCGTACCCCTGGTGTCTTCTGATTGGCACTGACTCCC
ACACCCCAATGGTGGCGGCTTGGGGGCATCTGCATTGGAGTTGGGGGTGCCGATGCTGTGGATGTTCATGGCTG
GGATCCCTTGGGAGCTGAAGTGCCCAAGGTGATTGGCGTGAAGCTGACGGGCTCTCTCTCCGGTTGGTCTCTAC
CCAAAGATGTGATCCTGAAGGTGGCAGGCATCCTCACGGTGAAGGTGGCACAGGTGCAATCGTGAATACCACG
GGCCTGGTGTAGACTCCATCTCTGCACTGGCATGGCGACAATCTGCAACATGGGTGCAGAAATTGGGGCCACCA
CTTCCGTGTTCCCTTACAACCACAGGATGAAGAAGTACCTGAGCAAGACCGGCCGGGAAGACATTGCCAATCTAG
CTGATGAATCAAGGATCACTTGGTGCCTGACCCTGGCTGCCATTATGACCAACTAATTGAAATTAACCTCAGTG
AGCTGAAGCCACACATCAATGGGCCCTTCAACCCCTGACCTGGCTCACCCCTGTGGCAGAAGTGGGCAAGGTGGCAG
AGAAGGAAGGATGGCCTCTGGACATCCGAGTGGGTCTAATTGGTAGCTGCACCAATTCAAGCTATGAAGATATGG
GGCGCTCAGCAGCTGTGGCCAAGCAGGCACTGGCCCATGGCTCAAGTGCAAGTCCCAGTTCCACATCACTCCAG
GTTCCGAGCAGATCCGCGCCACCATTGAGCGGGACGGCTATGCACAGATCTTGAGGGATCTGGGTGGCATTGTCC
TGGCCAATGCTTGTGGCCCCCTGCATTGGCCAGTGGGACAGGAAGGACATCAAGAAGGGGGAGAAACAACAATCG
TCACCTCCTACAACAGGAACCTTACGGGGCCGCAACGACGCAAAACCCCGAGACCCATGCCTTTGTACAGTCCCCAG
AGATTGTACAGCCCTGGCCATTGCGGGAACCTCAAGTTCAACCCAGAGACCGACTACCTGACGGGCACGGATG
GCAAGAAGTTCAAGGCTGGAGGCTCCGGATGCAGATGAGCTTCCCAAAGGGGAGTTTGACCCAGGGCAGGACACCT
ACCAGCACCCACCAAGGACAGCAGCGGGCAGCATGTGGACGTGAGCCCCACCAGCCAGCGCCTGCAGCTCCTGG
AGCCTTTTGACAAGTGGGATGGCAAGGACCTGGAGGACCTGCAGATCCTCATCAAGGTCAAAGGGAAGTGTACCA
CTGACCACATCTCAGCTGCTGGCCCCCTGGCTCAAGTTCCGTGGGCACTTGATAACATCTCCAACAACCTGCTCA
TTGGTGCCATCAACATTGAAAACGGCAAGGCCAACTCCGTGCGCAATGCCGTCACTCAGGAGTTTGGCCCCGTCC
CTGACACTGCCCCGCTACTACAAGAAACATGGCATCAGGTGGGTGGTGATCGGAGACGAGAACTACGGCGAGGGCT
CGAGCCGGGAGCATGCAGCTCTGGAGCCTCGCCACCTTGGGGGCCGGGCCATCATCACCAGAGCTTTGCCAGGA
TCCACGAGACCAACCTGAAGAAACAGGGCCTGCTGCCTCTGACCTTCGCTGACCCGGCTGACTACAACAAGATT
ACCTGTGGACAAGCTGACCATTACAGGGCCTGAAGGACTTCACCCCTGGCAAGCCCTGAAGTGCATCATCAAGC
ACCCCAACGGGACCCAGGAGACCATCCTCCTGAACACACCTTCAACGAGACGCAGATTGAGTGGTTCCGCGCTG
GCAGTGCCTCAACAGAATGAAGGAACGCAACAGTGAAGGGCAGTGCCTCCCCGCCGCTGGCGTCAAGTTCAG
CTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCCTATTCCAAGTAGTGTAAACC

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FIGURE 6080

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRKRLNRPLTLSEKIVYGHLD
DPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLIEAQVGGEKDLRRAKDINQEV
YNFLATAGAKYGVGFWKPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELK
CPKVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPVDSISCTGMATICNMGAIEGATTSVFPYN
HRMKKYLSTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWPL
DIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGP
CIGQWDRKDIKKGEKNTIVTSYNRFTGRNDANPETHAFVTSPEIVTALAIAAGTLKFNPETDYLTGTDGKKFRLE
APDADELPGEFDPGQDTYQHPPKDSSGQHVDVSPTSQRLQLLEPFDKWDGKDLEDLQILIKVKGKCTTDHISAA
GPWLKFRGHLDNISNNLLIGAINIENGKANSVRNAVTOEFGVPVDTARYYKKHGIRWVIGDENYEGSSREHAA
LEPRHLGGRAIITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKCI IKHPNGTQE
TILLNHTFNETQIEWFRAGSALNRMKELQQ

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FIGURE 6081

GCGGGCCGTTATCCATTTGTGTTGTTGCGCCAGCTAGGCCTGGCCTCGTCCCGCTTCGCTCGGTTCGGTCTCGCGCG
CCCCCATAGCCTTGCTAGAGGGTTAGCGTTAGCCTTAAGTGTGCGAATCCGAGGAGCAGCGACAGACTCGAGACC
ACGCTCCTTCCTCGGGAAGGAGGCGGCACCTCGCGTTTGAGGCCCGCCTGCGTTTGAGGCCCGCCTGCGCTTGCG
GCCCCGCTGCGCTTGAGGCCTGTCTGCGTTTGAGATCTCATTGGGCGTGATTGAGGAATTTGGGGAGGTTTTTGG
GCGGTATTGAGGACGAGGGGTCCGTTAGTCAGCATAGAATCCTGGAGCGGGAATCCCTCACCGTCTAAATGGCG
TCGGGGGCGGGACCTCCGGGATCTGGCTTCGCGGGGCCCGCCGCGCCCTGAAACGTGAGGGATAGCTGAGATGA
GGCAGCTACTGGGATGGCCCCATGCGCATTACATGCACTCCGACTGCCGAGCTTTCGAGGCAGCAGGATTTAC
CGTCCACATTCTCACTACTAACCAAGCTTTTAGAACAGATCTCACAAGAACCTAGAGGTCGGTATTTTTTCGAT
TTAAATTTGCCTGTTACTGACGTTAACGCTTTTCGCCTAGTGAGCAGTAGCCAACATGTCAGGGTGGGAGTCATA
TTACAAAACCGAGGGCGATGAAGAAGCAGAGGAAGAACAAGAAGAGAACCTTGAAGCAAGTGGAGACTATAAATA
TTCAGGAAGAGATAGTTTGATTTTTTTGGTTGATGCCTCCAAGGCTATGTTGAATCTCAGAGTGAAGATGAGTT
GACACCTTTTGACATGAGCATCCAGTGTATCCAAAGTGTGTACATCAGTAAGATCATAAGCAGTGATCGAGATCT
CTTGGCTGTGGTGTCTATGTTACCGAGAAAGACAAAATTTCAGTGAATTTTAAAAATATTTACGTCTTACAGGA
GCTGGATAATCCAGGTGCAAAACGAATTTAGAGCTTGACCAGTTTAAGGGGCAGCAGGGACAAAACGTTTCCA
AGACATGATGGGCCACGGATCTGACTACTCACTCAGTGAAGTGCTGTGGGTCTGTGCCAACCTCTTAGTGATGT
CCAATTCAAGATGAGTCATAAGAGGATCATGCTGTTACCAATGAAGACAACCCCCATGGCAATGACAGTGCCAA
AGCCAGCCGGGCCAGGACCAAAGCCGGTGATCTCCGAGATACAGGCATCTTCCTTGACTTGATGCACCTGAAGAA
ACCTGGGGGCTTTGACATATCCTTGTTCTACAGAGATATCATCAGCATAGCAGAGGATGAGGACCTCAGGGTTCA
CTTTGAGGAATCCAGCAAGCTAGAAGACCTGTTGCGGAAGGTTTCGCGCAAGGAGACCAGGAAGCGAGCACTCAG
CAGGTTAAAGCTGAAGCTCAACAAAGATATAGTGATCTCTGTGGGCATTTATAATCTGGTCCAGAAGGCTCTCAA
GCCTCCTCCAATAAAGCTCTATCGGGAAACAAATGAACCAGTGAAAACCAAGACCCGGACCTTTAATACAAGTAC
AGGCGGTTTGCTTCTGCTAGCGATACCAAGAGGTCTCAGATCTATGGGAGTCGTCAGATTATACTGGAGAAAGA
GGAAACAGAAGAGCTAAAACGGTTTGATGATCCAGGTTTGATGCTCATGGGTTTCAAGCCGTTGGTACTGCTGAA
GAAACACCATTACCTGAGGCCCTCCCTGTTGCTGATCCAGAGGAGTCGCTGGTGATTGGGAGCTCAACCCTGTT
CAGTGCTCTGCTCATCAAGTGCTGAGAGAAGGAGGTGTCAGCATTTGTGCAGATACACACCCCGCAGGAACATCCC
TCCTTATTTTGTGGCTTTGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTCCTCCAGGCTT
CCAGCTGGTCTTTTTACCCCTTTGCTGATGATAAAAGGAAGATGCCCTTTACTGAAAAATCATGGCAACTCCAGA
GCAGGTGGGCAAGATGAAGGCTATCGTTGAGAAGCTTCGCTTCACATACAGAAGTGACAGCTTTGAGAACCCCGT
GCTGCAGCAGCACTTCAGGAACCTGGAGGCCTTGGCCTTGATTGATGGAGCCGGAACAAGCAGTGACCTGAC
ATTGCCCAAGGTTGAAGCAATGAATAAAAGACTGGGCTCCTTGGTGGATGAGTTTAAGGAGCTTGTTTACCCACC
AGATTACAATCCTGAAGGGAAAGTTACCAAGAGAAAAACAGATAATGAAGGTTCTGGAAGCAAAAGGCCCAAGGT
GGAGTATTGAGAAGAGGAGCTGAAGACCCACATCAGCAAGGTACGCTGGGCAAGTTCACTGTGCCCATGCTGAA
AGAGGCCCTGCCGGGCTTACGGGCTGAAGAGTGGTCTGAAGAAGCAGGAGCTGCTGGAAGCCCTCACCAAGCACTT
CCAGGACTGACAGAGGCCGCGCGTCCAGCTGCCCTTCGCGAGTGTGGCCAGGCTGCCCTGGCCTTGCTCAGCC
AGTTAAAATGTGTTTCTCCTGAGCTAGGAAGAGTCTACCCGACATAAGTCGAGGGACTTTATGTTTTTGAGGCTT
TCTGTTGCCATGGTGATGGTGTAGCCCTCCCACTTTGCTGTTCTTACTTTACTGCCTGAATAAAGAGCCCTAAG
TTTGTACTAAAAA

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FIGURE 6082

MSGWESYYKTEGDEEAEEEEQEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPFDMSIQCIQSVYISKI
ISSDRDLLAVVFGTEKDKNSVNFKNYVLQELDNPGAKRILELDQFKGQQGQKRFQDMMGHGSDYSLSEVLWVC
ANLFSQVQFKMSHKRIMLFTNEDNPHGNDKASRARTKAGDLRDTGIFLDMHLKKPGGFDISLFYRDIISIAE
DEDLRVHFEESKLEDLLRKVRKETRKRLSRLKLKLNKDIVISVGIYNLVQKALKPPPICKLYRETNEPVKTKT
RTFNTSTGGLLLPSDTKRSQIYGSQIILEKEETEELKRFDDPGLMLMGFKPLVLLKKHHYLRPSLFVYPEESLV
IGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEELDDQKIQVTPPGFQLVFLPFADDKRKMPPTE
KIMATPEQVGKMKAIVEKLRFTYRSDSFENPVLQQHFRNLEALALDLMEPEQAVDLTLPKVEAMNKRGLSLVDEF
KELVYPPDYNPEGKVTKRKHDNEGSGSKRPKVEYSEELKTHISKGTLGKFTVPMLKEACRAYGLKSGLKKQELL
EALTKHFQD

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FIGURE 6083

ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCTATGACTGAGGCTGATGTGAATCCAAAGGCCTATCCCCTTGCCGATGCCCACCTCAC
CAAGAAGCTACTGGACCTCGTTCAGCAGTCATGTAATAAGCAGCTTCGGAAAGGAGCCAATGAGGCCACCAA
AACCCTCAACAGGGGCATCTCTGAGTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCATCGCCTGTTCTGTCAACATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCTAAACCTGTGGCCTCTGCCACGTGCTCCCTGCCAGCTTCCCCCTGA
GGTTGTGTATCATATTATCTGTGTTAGCATGTAGTATTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTCTGGATTTTGTGTTGTTTTGTTCTGTTTACAGGGTGTCTATCCCCCTTCCTTTCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCCTCCCTTTTGGAAACAAGTGTTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGACAGAGATCTGGTTCCAGCTTTCAGCCACTA
GCTTCCTGTTGTGTGCGGGGTGTGGTGAATTAAACAGCATTTCATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTTCATACGTGTTCAAGTGATCAAGGGGTTTCATTGCTCTTGGGGGATTAGGTATCATTGAGGAGGAAGCATG
TGTTCTGTGAGGTTGTTCGGCTATGTCCAAGTGTCGTTTACTAATGTACCCCTGCTGTTTGTCTTTGGTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAAGTGATGCTGGCATGAAGGATTCCAGGAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCTGGTGAATGGGACTTTCTTTGGTGGACACTTGGCACCAGC
TCTGAGAGCCCTTCCCCTGTGTCCTGCCACCATGTGGGTGAGATGTACTCTCTGTACATGAGGAGAGTGCTAGT
TCATGTGTTCTCCATTCTGTGAGCATCCTAATAAATCTGTTCCATTTTG

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FIGURE 6084

MTEADVNEPKAYPLADAHLTKKLLDLVQQSCNYKQLRKGANEATKTLNRGISEFIVMAADAEPLIILHLPLLCED
KNVPYVFVRSKQALGRACGVS RPVIACSVTIKEGSQLKQQIQSIQQSIERLLV

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FIGURE 6085A

CCGTCGGTGAGGCGGTGCCGGGCGGGGGTGTGTCGGGTGTCAATGGCGGTGGCGACGGCACCGCCCCCGGTCTCC
CTGAGCGGGACGGCAGGGGGGGCTTCTGCGCTGAGCCGGGCGATGGACGACAGCGCGAGCTGGGTGGTCTGGAG
ACCATGGAGACCTCACGGAGCTGGGCGACGAGCTGACCCTGGGAGACATCGACGAGATGCTGCAATTTGTCACT
AATCAAGTGGGAGAGTTCCCTGACTTGTCTTTCAGAACAGCTGTGTAGCTCCTTTCTGGCAGTGGTGGTAGTGGT
AGCAGCAGCGGCAGCAGTGGCAGCAGCAGCAGCAGCAGCAATGGCAGGGGCAGCAGCAGCGGAGCTGTGGACCCT
TCAGTGCAACGGTCATTACCCAGGTACATTACCTTCTCTCCCTCGGCGGCTCCCCACAGGCTCCAACCT
CTGCAAGTCAAGGTTTCTCCACCTCAGTTCCACACACCCAGGGCAACTCCTATTCTTCAGCCCCGCCCCCAG
CCCCAGCCTCAACCTCAAACTCAGCTGCAACAACAGACGGTAATGATCACGCCAACATTTCAGCACCCTCCGCGAG
ACGAGGATCATCCAGCAGCCTTTGATATACCAGAAATGCAGCTACTAGCTTTCAAGTCCTTCAGCCTCAAGTCCAA
AGCCTGGTGACATCTCCAGGTACAGCCGGTCACCAATTTCAGCAGCAGGTGCAGACAGTACAGGCCACGCGGGTG
CTGACACAAACGGCCAATGGCAGCTGCAGACCCTTGCCCCGGCTACGGTGCAGACAGTTGCTGCGCCACAGGTG
CAGCAGGTCCCGGTCTGTGGTCCAGCCTCAGATCATCAAGACAGATTCCCTTGTCTTGACCACACTGAAGACAGAT
GGCAGCCCTGTTATGGCTGCGGTCCAGAACCCGGGCTCACCAGCCCTCACCACCCCTATCCAGACGGGTGCCCTT
CAAGTACCAACCTGGTGGGCGAGTGGGACCATTCTGACCACAATGCCTGTAATGATGGGGCAAGAGAAAGTG
CCCATTAAAGCAGGTACCTGGGGGAGTCAAGCAGCTTGAGCCCCCAAGAAGGAGAAAGGCGGACAACCCATAAT
ATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATTGAAAGACCTGGTTCATGGGGACAGAC
GCCAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTTGCAGCAGGTCAATCATAAA
CTGCGCCAGGAGAACATGGTGTCTGAAGCTGGCAAATCAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGT
CTGGTGGACAATGAGGTGGACCTGAAGATCGAGGACTTAAATCAGAATGTCCTTCTGATGTCCCCCAGCCTCT
GACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCA
AAGGTCAAAGATGAGCCAGACTCTCTCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTC
CTCACCTTCTGTGCTCTCTCTTAAACCCCTGACTTCCCTGTGTCAGTGGGGAGGGGGCCACGACTCTGACCAG
CACCCACACTCAGGCTCTGGCCGCGAGTGTCTGTCTTCAGAGTCAGGTCTGGGGGCTGGTTTGAAGTGGATGATG
CCTACTCTTCTCTTATGGCTGGTAAATGGTGTGATTGTCTGAGCGCTTTGTGAAGCTGCTGGTTTCATGGGGAG
CCAGTGATCCGGCCACACTCGCGCTCCTCGGTACCTTCTGGAGGCACCGGAAACAGGCAGATCTGGATCTCGCC
AGAGGAGATTTTGCAGCTGCTGCCGCCAACCTACAAACCTGCCTGGCAGTTTGGGGCCGGGCACTGCCACCTCC
CGCCTGGACCTGGCTGCGAGCCTCTCCTGGAACGTGATCCGCTACAGCCTGCAGAAGCTACGCCTGGTGGCTGG
CTGCTCAAGAAAGTCTTCCAGTGCCGGCGGGCCACGCCAGCCACTGAGGCAGGCTTTGAAGACGAAGCTAAGACC
AGCGCCCGGGATGCGGCTCTGGCCTATCACCGGTGCACCAGCTGCACATCACAGGGAAGCTTCTGTCAGGATCC
GCCTGTTCCGATGTACACATGGCGTTGTGTGCCGTGAACCTGGCTGAATGTGCAGAGGAGAAGATCCCACCGAGC
ACACTGTTGAGATCCATCTGACTGCTGCCATGGGGCTCAAGACCCGGTGTGGAGGCAAGCTGGGCTTCTGTGGC
AGCTACTTCTCAGCCGAGCCAGAGCCTGTGTGGCCCCGAGCACAGTGTCTTCTGACTCCCTGCGCTGGCTC
TGCCACCCCTGGGCCAGAAGTTTTTCATGGAGCGGAGCTGGTCTGTGAAGTCAAGTGCAGTGCAGGAGAGTCTATAC
TGTGCCCAGAGGAACCCAGCTGACCCCATTCGCGAGGTCCACCAGGCTTCTGCAAGAACCTGCTGGAGCGAGCT
ATAGAGTCTTGGTGAACCTCAGGCCAAGAAGAAGGCTGGAGACCAGGAAGAAGAGAGCTGTGAATTCTCCAGT
GCTCTGGAGTACTTGAAATTACTTCACTTCTTTGTGGACTCTGTGGGGTTATGAGCCCCCACTCTCCAGGAGC
TCCGTGCTCAAGTCCGCCCTGGGTCCAGACATCATCTGTGGTGGTGGACGTCTGCAATCACTGTGGCCATCAGC
TGGCTCCAGGGAGACGATGCAGCTGTGCGCTCTCATTTTACCAAAGTGAACGCATCCCCAAGGCCCTGGAAGTG
ACAGAGAGCCCCCTGGTGAAGGCCATCTTCCATGCCTGCAGAGCCATGCATGCCTCACTCCCTGGGAAAGCAGAT
GGGCAGCAGAGTTCTTCTGCCATTGCGAGAGGGCCAGTGGCCACCTATGGAGCAGCCTCAACGTCACTGGGGGC
ACCTCTGACCCTGCCCTCAACCACGTGGTCCAGCTGCTCACCTGTGACCTGTCTACTGTCTGCTACGGACAGCGCTC
TGGCAAAAACAGGCCAGTGCCAGCCAGGCTGTGGGGGAGACCTACCACGCGTCAGGCGCTGAACGCGGGCTTC
CAACGGGACCTGGGCAGCCTGCGCAGGCTGGCACACAGCTTCCGCCCAGCATACCGCAAGGTGTTCTTGCATGAA
GCCACCGTGCCTGATGGCAGGAGGACAGCCCCACCCGACCCACAGCTGCTGGAACACAGCTTGGCGGGCGC
ACCACGCAGAGCACCAAGCACGGAGAGGTGGATGCTGGCCCGGCCAGCGAGAGCGGGCCACCGCCATCCTGCTG
GCCTGCCGCCACCTGCCCTCTCCTTCTCTCTCCCGGGCCAGCGGCAGTGTGCTGGCCGAAGCTGCCCGC
ACCCTGGAGAAGGTGGGCGACCGGCGCTCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGGTGGTGGCACT
GCCATTGCCGCTCTCTGACCAACAGGCTCAGCCACCCCTCCACCTCTCTCTCGATTCTCTCTCTCCCCCTCAG

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FIGURE 6085B

CATCTTCCCGCTGAGAGTGGTGGGGAAGAGCCTTGTCTTCTTAGCTGTCACCTGCCGAGGCTTCTGGGCCACTCA
GGCCAGTGCACCCCTGGGCAGAGCCCCTTAAAGCTGCTGTCACTAGATGCCCATGGTCCAGGGCCTGGTGGGCGT
GAGAGGATAGGTGGCAGGGCAGAACTGGGCAGCCCTGACTTGATAGCAGCAGGGGGAGCTCCCAAGCTGCCAAG
CCCCTGCCTCCAGCCTTCCTGAGTTTCTCTCTCCTGAACCCTACTCTCTCCTTTTGTTCCTCAGTTTTTATCA
GGCTTTCTCTGGGGGACAGCAGTCTCTGAGCACCAGGGAGCAGTTGCCCTCAGGCCTGTGCCCAGCATGCCCTCC
CCTTTTTATACGAATGTTTCTACCAGTGTGCTTGGGTTTGCCATGATGCGAGGCTGAGTTGCTGTAGCGTCTTG
ATTCTCTCCCTGGGTCTGCGTTCCCTCCCCTGGGCCTGACTGAGCCTGCTCATTGTTTTTCCCTTTATTACACAG
GACAGCCAGGGGAGGAGGGGGGCCAGCCCTGGGAGGCTGGTGGGAGGCAGGGGGCAGGCCTGCGGATGCATGAA
ATAATGTTGGCATTATTTTTTAATTTTTTAAAAATAAATGGTATCTTA

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FIGURE 6086

MDDSGELGGLETMETLTELGDDELTLGDIIDEMLQFVSNQVGEFPDLFSEQLCSSFPGSGSGSSSGSSSSSSSN
GRGSSSGAVDPSVQRSFTQVTLPSFSPSAASPQAPTLQVKVSPSTSVPTTPRATPILQPRPQPQPQQTQLQQQTV
MITPTFSTTPQTRIIQQPLIYQNAATSFQVLQPVQVQSLVSSQVQPVTIQQQVQTVQAQRVLTQTANGTLQTLAP
ATVQTVAAPQVQVQVPLVQVQPIIKTDSLVLTLTKTDGSPVMAAVQNPALTALTTPIQTAALQVPTLVGSSSGTILT
TMPVMMGQEKVPIKQVPGGVKQLEPPKEGERRTHNIIEKRYRSSINDKIIELKDLVMGTDAMHKSGVLRKAID
YIKYLQQVNHKLRQENMVLKLANQKNKLLKGIDLGSLVDNEVDLKIEDFNQNVLLMSPPASDSGSQAGFSPYSID
SEPGSPLDDAKVKDEPDSPVALGMVDRSRILLCVLTFCLSFNPLTSLLQWGAHDSQDHPHSGSGRSVLSFE
SGSGGWFDWMMPTLLLLVNGVIVLSVFVKLLVHGEPVIRPHSRSSVTFWHRKQADLDLARGDFAAAAAANLQTC
LAVLGRALPTSRLDLACSLSWNVIRYSLQKLRLVRWLLKKVFQCRATPATEAGFEDEAKTSARDAALAYHRLHQ
LHITGKLPAGSACSDVHMAICAVNLAECAEEKIPPSTLVEIHLTAAMGLKTRCGGKLGFLASYFLSRAQSLCGPE
HSAVPDSLRLWLCHPLGQKFFMERSWSVKSAAKESLYCAQRNPADPIAQVHQAFCKNLLERAIESLVKPQAKKKAG
DQEEESCEFSALAYLKLHLSFVDSVGVMSPPLSRSSVLKSALGPDIIICRWWTSAITVAISWLQGDAAVRSHT
KVERIPKALEVTESPLVKAIFHACRAMHASLPKGADGQSSFCERASGHLWSSLNVSGGTS DPALNHVVQLLT
CDLLSLRTALWQKQASASQAVGETYHASGAELAGFQRDLGSLRRLAHSFRPAYRKVFLHEATVRLMAGGSPTRT
HQLLEHSLRRRTTQSTKHGEVDAWPGQRRERATAILLACRHLPLSFLSSPGQRAVLLAEAAARTLEKVGDRRSCNDC
QQMIVKLGGGTAAAS

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FIGURE 6087A

GATTTCGAGTCAGAAGCGGCGGCAGGTCTGAACGCTTCGGTAGGATAAGTGCGGTGGGAGGGGGCTCTGCGGTTTT
GGGGAGCCCAGGGCGGGAACCCGACCCGGCTGGAAGTCCGGAGCCTGGCCGAGCCCCGCCCCCTCCGCTCTTTT
TTGGTGACCTTAAGCCAGTGGCTGCCTTTTTCTGAGCCCGGGCGGGCCGAAGGCGCCCGTAGGCCCTCGGGAC
TCCCAGCACTGCAGAGGGTGTGAGGTCTGACATCCAAGACACGTTGTTTTCTGATTCTGAAGGAAGAACTGAAGC
TCCGGGAAGTGATGGCTGGGGATGGGGCGGGCAACTTGGGGACCGAGTGACGATCCACGCCTAAGGTTGAGGGC
GGCCGAGCTAGCCAGGCAGCCGTGACCCAGTGCTTTTCAGACGTTTCTTAGCTTCCAGAGCCCAACACATACAG
CTGATACACGCAGACCAGATCTGGTCAGGTCTCGGAAGCTGAGTCCAGAGCGATGCTGCTGAAGACAGTGCTCT
TGCTGGGACATGTGGCCAGGTGCTGATGCTGGACAATGGGCTCCTGCAGACACCACCCATGGGCTGGCTGGCCT
GGGAACGCTTCCGCTGCAACATTAACGTGTGATGAGGACCCAAAGAACTGCATAAGTGAACAGCTCTTCATGGAGA
TGGCTGACCGGATGGCACAGGATGGATGGCGGGACATGGGCTACACATACCTCAACATTGATGACTGCTGGATCG
GTGGTCGCGATGCCAGTGGCCGCTGATGCCGGATCCCAAGCGCTTCCCTCATGGCATTCTTTCTGGCTGACT
ACGTTCACTCCCTGGGCCTGAAGTTGGGTATCTACGCGGACATGGGCAACTTCACCTGCATGGGTACCCAGGCA
CCACACTGGACAAGGTGGTCCAGGATGCTCAGACCTTCGCCGAGTGGAAGGTAGACATGCTCAAGCTGGATGGCT
GCTTCTCCACCCCCGAGGAGCGGGCCAGGGGTACCCCAAGATGGCTGCTGCCCTGAATGCCACAGGCCGCCCA
TCGCCCTTCTCCTGCAGCTGGCCAGCCTATGAAGCGGCCTCCCCCAAGGTTGAATACAGTCTGCTGGCGGACA
TCTGCAACCTCTGGCGTAACATATGATGACATCCAGGACTCCTGGTGGAGCGTGCTCTCCATCCTGAATTGGTTCTG
TGGAGCACCAGGACATACTGCAGCCAGTGGCCGGCCCTGGGCACTGGAATGACCTGACATGCTGCTCATTGGGA
ACTTTGGTCTCAGCTTAGAGCAATCCCGGGCCAGATGGCCCTGTGGACGGTGCTGGCAGCCCCCTCTTGATGT
CCACAGACCTGCGTACCATCTCCGCCAGAACATGGACATTCTGCAGAATCCACTCATGATCAAAATCAACCAGG
ATCCCTTAGGCATCCAGGGACGAGGATTACAAGGAAAAATCTCTCATCGAAGGTACATGCGGCCCTCTGTCCA
ACAAGGCTAGCGCCTTAGTCTTCTTCAGCTGCAGGACCGATATGCCTTATCGCTACCACTCCTCCCTTGGCCAGC
TGAACCTTACCGGGTCTGTGATATATGAGGCCAGGACGCTACTCAGGTGACATCATGAGTGGCCTCCGAGATG
AAACCAACTTCACAGTGATCATCAACCCTTACAGGGGTAGTGATGTGGTACCTGTATCCCATCAAGAACCTGGAGA
TGTCACAGCAGTGAAGGAGCTGGGACATGTGACAGGCTGTGGTGGCACCAGTGAAGCTAGACCATGGAGCCTTGGC
ATGCCCAGGGCAAGTGGGGAGGTTCTCTGCTCCCCAGGCCTGCTCGGTGACTGACCCCATCATACCCAAAGTGCA
ATCTCACGGCCAGGTTCTATGCCCTGTCCAAGCGTAAACCTCTTGGAACTTCTTTTGGGGCAATTTTCTGTG
GCCTTCTGGCCTCTACTTCCATGTGCGCAGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCA
TGCCCATCAGGACTCTAGCCTCTGACCTTGCTGTTGACTCTGAAATCAGGATTTGGAAGTTTTCGAATTAGGAGT
AGAGAGATCTGACCTCTTGCCAGGAATGCCCATGGATCATGTGATTGGCTTTTCTACCCATAGAGGGCCTTGCA
CCTGATACCACCTGGGAGTGAGGGTCACAAAGGAGACCTTGGCTCCCTCAGGTACCAATAAACCTGTTCTTTAA
TCAAGTAGTTGTAATATGGACCTGGGGTACCTTTAGTTAGGGACTCTGGTGGCACTACACGGGGTGTGATTCA
AATCTCACCTCTATGGATGATGTCTGGCATCGTCTGGCCCCCTCTTTTCCAAAGTGACCAGAAGATTGTACTTCC
TAGAGATGCCAGACTTGCCTCACACCCAGGAGCTGCCCTGCTGTGCTGGTATGCTGGCAGTGGTGATGGTGAC
AACACAATGAGGCCAAGTAGCAATGCTCCAGGTCTGCAGCTTGTGCTCTGCCAGCAGTGGCCCTGGCCAGC
ACCTCAGCCTGCTCTTCTCTTGGTGGCTCCACCCCAACCCCTACTTCTTTTCTTTTATTTCTCTCCCAACCTGG
CTGCAAAGGAGGTTTCAATTTCCCCAGATGTGTCCACAAACCTGTCCAGGAGTTGTGTCTTAAATTTGATTCTCTG
TCCCTCTTCTAAGGACAGGGGTAACAGTCAAAGTGAAGGAATGATGGGTTCTTGCCTGTCTTGTCTTGGTCCGT
ATTTCCCAAGCCCTCCTCTTTTAGCCAAGGCTACAGGGCACTTGTCTTCCCTGGTGGCTCTCCCTTTGGAGAGA
GCTAGTGGCAGAGCAACCTAGCTAGGTCTCCTTGGGCTTTGAATGCAGGAGCACCCAGTGCCCCAGGCCTTGCA
CTGTGCTGCCAAGGAGTATTTCTGGGTGGATCTCCATACTCCTCAGGGTCTGAGGTCTTGATTTAGGGT
ATGGTGTAAAAACTTACATATGCACATTTTGTACATCATTTAAGATGATTGAAGCTTTACTGGTTAAGTATAGG
GTCACCAGAGAAAGTTCTTTCCCCAGTTGATGTCTTGAGGCTGTTGAGAACTTAGGACAGAAGCCTACCTCAT
CCCAGGCCTGCCCTCCGTGCATAGCTCTGCCCTTGGGTCTTGTTCATAGTGTGTTTACGGCAAAATGGAATAGT
CTCAGGTGGGAACACCTTCTTGTAGCTCCAGGAAGGCTTGTGGGAAATGAGTTGAGACCATGGACTTGGGA
GTTGGGGGCCAGAGTTGAGCCTGGACTTGACCAATTAATTCCTTACCTTTTACGCCCAAGATAGCTACATGTCTT
TACTTGTGTATAAGTTTTCTTTTGTCTGGGGGTGCCTGATTGATCCTATCTCTTACCCTTCATTCTTTCAA
CAAACATGCCATCTATCTCCAGGACATTTATTCCTTCTATTCAAGGCCAGTTAGGAATGCAATATTTTTTTTT
TTTCAGTTAAATACAGACTTGTGGACGCAAGGTACCCCTTCTCTTTTTTAAAACTTTTTATCATGAAAACCTT

6593/6881
FIGURE 6087B

CAAATACAAAAATAAAATGGTAGAGTGAACCTCCATG

6594/6881
FIGURE 6088

GAGAGTGTCTGCTGGTCTCTGTGCTGGTGGGGTGGGGGTGCCAGGTGTGTCCAGAGGAGCCCAGTTGGTAG
TGAGGCAGCCATGGGGCTAGAAGCACTGGTGCCCTGGCCATGATAGTGGCCATCTTCCTGCTCCTGGTGGACCT
GATGCACCGGCACCAACGCTGGGCTGCACGCTACCCGCCAGGTCCCCTGCCACTGCCCAGGCTGGGCAACCTTGC
TGATGTGGACTTCCAGAACACACCATACTGCTTCGACCAGTTGCGGCGCCGCTTCGGGGACGTGTTACAGCCTGC
AGCTGGCCTGGACGCCGGTGGTCTGTGCTCAATGGGCTGGCGGCCGTGCGCGAGGCGATGGTGACCCGCGGCGAGG
ACACGGCCGACCGCCCGCTGCGCCCATCTACCAGGTCTGGGCTTCGGGCGCGCTTCCCAAGGGGTGATCCTGT
CGCGCTATGGGCGCGGTGGCGCGAGCAGAGGCGCTTCTCCGTGTCCACCTTGCAGCACTTGGGCTGGGCAAGA
AGTCGCTGGAGCAGTGGGTGACCGAGGAGGCGCGCTGCGCTTTGTGCGCGCTTCGCGGACCAAGCCGGACGCCCC
TTCGCCCCAACGGCTCTTGGACAAAGCCGTGAGCAACGTGATCGCTCCCTCACCTGCGGGCGCGCTTCGAGT
ACGACGACCTCGCTTCCTCAGGCTGCTGGACCTAGCTCAGGAGGAGTGAAGGAGGAGTGGGCTTCCTGCGCG
AGGTGCTGAATGCTGTCCCGTCTCCCGCACATCCAGCGCTGGCTGGCAAGGTCTACGCTTCCAAAAGGCTT
TCCTGACCCAGCTGGATGAGCTGCTAACTGAGCACAGGATGACCTGGGACCCAGCCAGCCACCCGAGACCTGA
CTGAGGCTTCCTGGCAAAGAAGGAGAAGGCCAAGGGGAGCCCTGAGAGCAGCTTCAATGATGAGAACCTGCGCA
TAGTGGTGGGTAACTGTTCTTCCGGGATGGTGACCACCTCGACCACGCTGGCTGGGGCTCTGCTCATGA
TCCTACACCTGGATGTGACGCTCCGTGTCCAACAGGAGATCGACGACGTGATAGGGCAGGTGCGGCGACCCAGAGA
TGGGTGACCAGGCTCACATGCCCTGCACCACTGCCGTGATTACGAGGTGACGCGCTTGGGGACATCATCCCC
TGAGTGTGACCCATATGACATCCCGTGACATCGAAGTACAGGGCTTCCGCATCCCTAAGGGAACGACACTCATCA
CCAACCTGTATCGGTGCTGAAGGATGAGGCCGTCTGGAAGAAGCCCTTCCGCTTCCACCCCGAACACTTCCTGG
ATGCCCAGGGCCACTTTGTGAAGCCGGAGGCCCTTCCTGCCTTTCTCAGCAGGCGCGCGTGCATGCCTCGGGGAGC
CCCTGGCGCGCATGGAGCTCTTCCTTTCTTACCTCCCTGCTGCAGCACTTCAGCTTCTCCGTGGCGCGCGGAC
AGCCCCGGCCAGCCACTCTCGTGTGCTCAGCTTTCTGGTGACCCATCCCCCTACGAGCTTGTGCTGTGCCCC
GCTAGAATGGGGTACCTAGTCCCCAGCCTGCTCCCTAGCCAGAGGCTCTAATGTACAATAAAGCAATGTGGTAGT
TCCAACCTTGGGTCCCTGCTCAGGCCCTCGTTGGGATCATCCTCCTCAGGGCAACCCACCCCTGCCTCATTCT
GCTTACCCACCGCCTGGCCGCAATTTGAGACGGGTACGTTGAGGCTGAGCAGATGTAGTTACCTTGCCCCATAA
TCCCATGTCCCCACTGACCCAACTCTGACTGCCAGATTGGTGACAAGGACTACATTGTCTGGCATGTGGGGGA
AGGGGCCAGAATGGGCTGACTAGAGGTGTGAGTCAGCCCTGGATGTGGTGGAGAGGGCAGGACTCAGCCTGGAGG
CCCATAATTCAGGCCTAACTCAGCCACCCACATCAGGGACAGCAGTCTGCCAGCACCATCACAACAGTCACC
TCCCTTCATATATGACACCCCAAAATGGAAGACAAATCATGTGAGGGAGCTATATGCCAGGGCTACCTCCCAGGG
CTCAGTCGGCAGGTGCCAGAACATTCCCTGGGAAGGCCCCAGGAAAACCCAGGACCGAGCCACCGCCTCAGCCT
GTCACCTTGTGTCCAAAATTGGTGGGTTCTTGGTCTCACTGACTTCAAGAATGAAGCCGTGGACCCCTCAGGTTGA
GTGTTACAGTTCTT

6595/6881

FIGURE 6089

ACACCATCCTCTTAGTTGCTCAGACTGAAAACCTAGCAGCCATCCTGGATTCTCTCACA CTGCCTATTCAACGT
GTGAATGCATGAGTGGAAAGCTGAGTTCGCACTCGTGACTGGCCGGGGTCAACTCTGACATT CGCTCCCACTTTC
GCGCGCTGATTTATCTCTGAGCGGATGAAGGTTGGGCCATGGCGGGCGGGGCCGGGGAGGCGGGCTTGGAGTGAG
GGGGCGGGGCAGGCGCCACGAAAACGCGCTCGCGCCGCGCGGCAACCGCAACTCCCGGGCGGGCCCCGCGCTCCCG
GGTGGCAAGATGGTGGCGCGCAGGAGGAAGTGCGCCGCGCGGGACCCGGAGGACCGTATCCCCAGCCCACTGGGC
TACGCAGCTATTCCAATCAAGTTCTCTGAAAAGCAACAGGCTTCTCACTACCTCTATGTGAGAGCACACGGCGTT
CGACAAGGCACCAAGTCCACCTGGCCTCAGAAGAGGACTCTTTTTGTCTCAATGTGCCCCCATACTGCACAGAG
GAGAGCCTGTCCCGCTCTGTCCACCTGTGGCCTCGTCCAGTCTGTAGAGTTGCAGGAGAAGCCGGACCTGGCT
GAGAGCCCAAAGGAGTCAAGGTCAAGTTTTTTTCATCCCAAGCCAGTTCCGGGTTTCCAGGTAGCCTATGTGGTG
TTCCAGAAGCCAAGTGGGTGTGTCAGCGGCCTTGGCCCTGAAGGGCCCCCTGCTGGTGTCCACAGAGAGCCACCT
GTGAAGAGTGGCATTACAAAGTGGATCAGTGACTACGCAGACTCTGTGCCCCGACCCTGAGGCGCTGAGGGTGGAA
GTGGACACGTTTCATGGAGGCATATGACCAGAAGATCGCTGAGGAAGAAGCTAAGGCCAAGGAGGAGGAGGGGTC
CCTGACGAGGAGGGCTGGGTGAAGGTGACCCGCCGGGGCCGGCGGCCTGTGCTCCCCCGGACTGAGGCAGCCAGC
TTGCGGGTGTCTGGAGAGGGAGAGACGGAAGCGCAGCCGAAAAGAGCTGCTCAACTTCTACGCTGGCAGCATCGA
GAGAGCAAGATGGAGCATCTAGCGCAGCTGCGCAAGAAGTTCGAGGAGGACAAGCAGAGGATCGAGCTGCTGCGG
GCCCAGCGCAAATTCCGACCGTACTGAGCTGTGAGAGCCGAGTGAATGGCTGGAGGTGCAGGGCCAGGAGGAGG
CGAGGCAGGGCCTGCAGCGGTCTCTGAGAGGCCGAGCTCTGGCCAACGGGCCCCAGGTGAAGGCCACCGCGTCC
AACAGCCCCATCAGAGTCCACACAGGCCAGGAGGGAAGGACCAGGCCACCCCTCGGGTCTTGTGCTTCAGCAGTC
CTGGGGACCCAGGCGTGCCGAGAGGAGGACTTGTCTTCTGCTTCTTGGCTCCACACCCTCCTCTCCAGGACCC
TGGATGAATCCGTTCTGTGCTTCTTTTTCCCTCAATGCAAAAGCCCTTGCTGGCAACGAAAAGCCTCAAAAGCA
GTGAGAATACAAGAACCTTTTATTTTCCATCCAGTTGGGCAGCAGGGAAAGGCTAGGTGGGCCAGCCCGCCCTT
CCTTCTCCAGCTGGCTGGAGATTATTAGCCAGGAGACAGCAGCCCTGGAACCCAGACTCTGTCTCCCCCTTGAG
GTCACAGATGTTGAAGTTGGAATCTCGCTCCTTCCCCTGACTACCATCCTAGGCTGGGCCTCAAGACTAGTGAGG
CCTGTCCCCACCATCCCTGGCCTTGTGTGGGGCTCAGGAAGTCAAGTCCCAGTGTGAGTCTGGGAGCACTAG
GTCTTCATAGTTCCAGGCCAGAGCTACAGCTGGGCTGGGAGCGTGTGTGTGCACTGTAAGAAGGAGCTGATGAT
ACTGGCCACGTGCTGGGGTTCGCTCATGTGGACACAGTGATTGCCTGGGACTTCCACAACTGGAACCGCTCTTT
GAGGGTGGATTTATTGTGTCTATCATGAACGACAGGACTCCTTGTGAGAGTAATTCTCTCTTGGATCAAAATA
TCCGTGGACTGCTTTGATCAACAGGACATGGGCCTGCAGCTTCTGATGGAATGCGCACACAGCTCCCTGCTGAC
GAAGTCAATGCTGTTCTCTGCC

6596/6881
FIGURE 6090A

CGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGTGAGTTCCAAAGG
CGGGGTGCTGGGGAGAGGCAGCTCCGTCCATCTCTTTTTGTTCTAATGGGTAAACTGCCTGCATCACAGTCCCC
TTCATCCCCCATTCGGTTTCTCTGTCTAATGGCAGCTGGCCGTTTCATATGCTTAACTTGACCAAAATGGT
TTGCTTTGTTATTTCCCCAGGGCTTGACCTATAGGGACTAGCATTATGATCTCGTTCTCAGCTTTCTGATTAG
AAATATCTGAGTGGAAAGTTGGAGGGGAGGCTGCTTGGGTCTCCTAGCTGTGTGCATCATCCCGGGAACAGAGAA
CTCCACTGCATGATTGGCTCTGATGGAGACAGTGCCAGATGCTACCCCTTATTTTGTTCGCCAGTGAGGTTTTTT
GTTTGTGTTGTTTGTGTTTGTGTTTTTGTCTTTTTCAGTTATTTTGTAGAGTCTCACTGTGTTGCCAGGTTGGTTT
CAAACCTCTGGGGTCAAGCAACCCTCTCCCTCAGCCTCCTGAGGACCTGGGACTATAGGCGCACACCATCACGC
CCAGCTGGATTTGGCTTTTAAGTACAGTGGGAAGCCATTGAAGGCTTTTGTGTCACACAGCTGAGTATACATGCC
TGGCCCAGGACTGAGGGATGTTTTGAAGCCTGAGATGCATAAAATGTTGAGACTGTGAGGACTTCACCTTCTAGA
TAAGGAAGCAGATACCAGGGAGGAGGTTAGACTTGCCAGGGTGAGTGGGATAGTGTGGGGCAGGGCTGAAATAGA
CTTTGAGATTTAAAAAGACTAGGATTTGAACCCTGGGTAATGAATTATGTGATTGGATAAGTTCTTAACTGTG
TTCAAGGAATAAGAAATATTTCTTAGGGTTTGTAACTAATAAGTTTGGGAAGTACTGGGCTAAACAGAGTTAC
ATCTGTTTCACTTTCGGGCTTCTCAGATTGTGTAATATGCTAATGGATGTTACCATCCAGAAGGAACATGCAGTG
TTTCCTAACTTAAACCAACAATTAGCCAGGTGTGGTGGCATGCACCTATAGTCCCAGTTACTTGGGGGGCCGAG
GTGGGAGGATCGCTTGAGCCTGGAAGATCGAGACTAGTGAGCCATCATATGCCACTGCACCTCAGCCTGGGTGA
CAGAGTGAGATTCTGTCTCAAAAAAACCCACAAAACCTAGAACATACAGCACTGCCTGCGTCTCCATTTTCTG
ATCAGTAAATAAGAAAAACACAGCCTGGGCCACATAGCAAGACCTGGTCTCTACAAAAATTTTAAAAATGAGCC
AGGCATGGTGGTACACGCTGTAGTCTTAGCTCCTTAGGAGGCTGTGGCAGGAGAACTGCTTGAGCCTAGGAGAT
GGAGGCTGATGTGAGCTGTGATTGAGTTTGTGCGAGGTGGAATGAGATGAAGGGGTATGGAAGTGTACACCC
AGTGCCTAGCTCATGACAGATGCCAGTAAATGGTGGTCCCTCCCCATCTAAGGAAAACTGACAAGAATTTT
TGACTCTTCTCTGCTCTCCACAGGCGGCTGAGTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGG
GTGAACCTGCCTCCTCTCCAACCCCCCTGCCGAAGTGGACCCTGACACCATCCTGAAGGCACTCTTCAAGTCC
TCAGGGGCTCTGTGACCACGCAGCCACAGAATTCAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAG
TGGGGGCAGAGGAGGTGGCTCTGTTTCCCCAAGGCAAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCT
GATTGTGGGAAGGGTTGCCAGGGATAAAGAGCTTCTCACTGGATGGGACCCGCTTCTGTGTTGTGTTCTGCC
CTGTGCTCTTCTCTCTACGTTAACGTTTCCGTGTAGTATGTTTCTCATCTCATCGCAAGGTAGGCTGTGTTTT
TCAGTGTGTGCCCTCCCCGAGCCTCAGCCCCAAGCTGATTTCTTATCTGGAATGGTACACTGAATTTCTGCGG
GCTTTCTTGTGGCCCCATGGGATGCAGCGTGGGGGCTGTCTGAAGGACCCTGCTTTTCCAGGGGCCGAGGGGCT
GCCTTTCTTTGTGTGTATTAAGCTTTTCAAACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAG
GTGGGCTGAGAGCTGTGCCGCTCCTCTGTCTTGTGAGTGGAGGTGCCTGGGTGGGAGCAGGTCTCAGGCCCTCT
TGTCCTCTCCCCAGTGGCTCCAGGCCTCACTAGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTAT
CTAAGCTCTTGGCTTGGAGTCCCGTGTCTGTCTCCACCCAGAGGAAGTTCTCCAGAGTTCACCTTTCCCTTTTCT
TGAGTTGTGCTGAATGCCCCACCCAGCTCTCTTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTA
GCCCTCCCGGTTCTCACCTCGCTGGCACTTAACCACACCCTGGTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTG
GGCCTTTGAAAGGCTCAGCCTCCCATTTGTGCAGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTCAGTTT
TTCTGGCTCTCCATTTCTGGCCTCAGTTGTCTACAGGACAGTGGTCAGGATGCCTGGAGGCATATATCCAGCT
GCCACCAAGGGGCACTGTTTGTTCCTTATGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTCTCTG
CCTTGGCAGAGGAGGAGGAGTCAAGGGAGCAGGGCAGCTCTACAGGCAAGGTGTTTCCCCAGCATAGGCGCAGA
CAGTTGGGACGAACTTCAGAGCCAGGCAGTCCCTGAATGACCAGGCCAGTGTGTCACTGAGTGGTCCCCGCTG
TGGTTGGGAGTGAAGAGAATCCAGGCTGGCAGAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAA
ATCAGTAGCAAGTGTGGAAGGACATGCCGAAGATACTCAAGAGCTCCCAAGATTGCTTGAAGGCTAGCCCA
GTGAAAAAACCAGAGACTCATGTTTCCAGGGGTGAGTGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
TCAGTGTGAGGCTCTGAGGCTGCCAGGACGGGAAAGTCCAAGGAAGGGGCTGGTGGTGTCTCCACTTGCAGTT
CTTAAAGAATGCTGCTTTTTTATCTCCTAACCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACA
TTCTCCACACTTTTCCCTTCTGGCCCAAGAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTACTGG
GAGCCGGGGGCTCACTGCTTGCAGTGTGCTTAGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCC
CTCTCATCCCAAAGCAGGTATCTTCTGGTTGTACAGAGTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTG

GAGGTGGTGCTATAGGTGACCATCTGGTACATTGAGGGGACCTGTTTGCCCTCCTCCACTCTATAAGCAGTCAATCT
TGGGAGACCGGGAGGAGAAGGTGGTGGGCTAGTCTGTGTCCTCCTCCACTTCCCATGCCTCTATGTTACCCATC
TGTGTCTCCTGTGCAGAAGGAGAGGAAGGGGCATTAAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTG
AATAAACATTGTGTTATTCCTACCTTTGAGTTATCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGACAAAGTCTCAC
TCTGTTGCCAAGGCTGGAGTGCAGTGGCACTATCTCAGCTCACTGCAACCTCCGCAGCCAGACTCAAGTAATATCT
CCCACCTCAGCCTCCCAATTAGCTGGGACTGCAGGCGTGCATCACCATGTCTGGCTAATTTTTGTAGAGATGAGG
TTTACCATTGTGCACAAAGCTGGTCTTGAAATCCTGACCTCAGGTGGTCTGCCTGCCTCGGCCTCCCAAAGTTGG
AATTAACAGGCGTGAGCCACCACGCCCAGCCAAGGGTTTTAATCTTGACGGGATTTCAACATTTGGGGTGGAAC
TAATTAATTTAAAAATAGAGACAGATTCTTGCTATGATACCCAGGATGGTCTTGAACTCCTGGGCACAAGTGATC
CTCCTGCTTCAGCCTCTCAAAGTGTTGGAGTTACAGGCATGAGCCACTGCTCCCCACCAGGGATGCAAACTACTT
GATACTCCTCTCCAGAAGGTGGGGTCTGTGCCCTCCTGAACCCAAGTGTGCTCTGTTACTACTTTGACCAGAT
GTGACTCTGCCATTTCTGTGCCTAGGCTTTTAAAGATGGTCACTTCTCCATTTCTGTGCCTGGAACATTCTCTG
GGAGCCTTGACACCACATTTGAAGTTGCCTATTGGGGCCAGCATGGTGGCTCAGCCTGTAATCCCAGCACTTCA
GAAGGCCGAGGCAGGCAGATCGCATGAAATCAGGAGTTTGAGACCAGCCTAACCAACGTGGTAAAACCTGTCTC
TACTAAAAAATTACAAAAATTAGAGGGGCGCGGTGGTGGGCGCTTGTAATCCCAGCTATTACAGGAGGTGAGGCAG
GAGAATCACTTGAACCCGGGAGGCGGAGTTTGCACTGAGGTGAAATCACGCCACTGCACTCCAGCCTGTGCAACA
GAGCGAGGCTCTGTCTCAAAAGAAAAAAATAGTTGACTGTGCGTTTGGCATGGTGGCTCATGCCTCTTGTCCCA
GCACTTTGGGATGCTGAGGCAGGAAGATTACTGGAGCTCAGGAGTTCGAGACCAGCTTGGGCAATATAGTGAAGC
CCTATCTTTACAAAAACGAAAAATTAGCTCAGCTACTCAGGAGCCTGAAATGGAGGATCATTGTGCCCAGGAG
GCAGAGGTTCGAGTGAGCTGTGATCATGCCACTATACTCCATCCTGGGCAACACAGTGAGACGGCAGAAAAAAA
AAATAGTTGACTATTGAGTCTCATATCTGATTGCCACCTGACATCTCCCTGAGTGGCTAATGGGCATCTCAC
CACGGCCACAGAGAAGTATCTACTCGATTTTCCCTAAGCTGGCCCCCTCTCTGCAGTCTACCCATGTCAGTCA
ATGGCAACACCATCCTCTTAGTTGCTCAGACTGAAAAGCTAGCAGCCATCCTGGATTCTCTCACACTGCCTATT
CAACGTGTGAATGCATGAGTGGAAAGCTGAGTTCGCACTCGTACTGGCCGGGGTTCGACTCTGACATTCCTCC
ACTTTGGCGCGCTGATTTGCCCTCTGAGCGGATGAAGGTTGAGCCATGGCGGGCGGGGCGGGGAGGCGGGCTTGG
AGCGAGGGGGCGGGGCAGGCGCCACAAAAACGCGCTCGCGCGGGCGCGGAACCGCAACTCCCGGCGACCCCCGCG
CTCCCGGGTGGCAAGATGGTGGCGCAGGACGAAGCTCGCGGCGGGGACCCGGAGGACGGTATCCCGAGCCCA
CCGTGCTACGCAGGTGAGGGGATCCGGAACGCGAGACCGGGGCGGCCAGCATCGCCGGGAGGTGTTTGGGGGT
GGCGGCGGGCGGGGTCCCCAGGAGCGGCGCG

6598/6881
FIGURE 6091

CGAGAGTTGGTCCGCGGACGCCGGAAGTAGTTTCGTCGCTCCCTAGCGGCCGAAGGGGCGGGCTCGCGGGGTCTCG
ACTGCTTTTCGGCTTGCTCGGCGGAGCAAGATGGCGGACATCTCCCTGGACGAACATCAGGAAGCGCGGGGCGG
CGGCGAAAGGACGGCTTAATGCCAGACCGGGAGTTGGAGGTGTCCGATCTCGAGTTGGGATCCAGCAAGGCCTTC
TCAGCCAGTCAACACGCACAGCCACCTTCCAGCAGAGATTTGATGCCCGGCAGAAGATTGGCCTCTCAGATGCCC
GGCTCAAACCTGGGAGTCAAGGATGCCCGGGAGAAGCTTTTGCAGAAAGATGCCCGATTTCGAATCAAAGGGAAAG
TGCAGGATGCCAGAGAGATGTTGAACCTCTCGCAAGCAGCAGACCACGGTGCCCCAGAAGCCCCGCCAGGTTGCTG
ATGCCCGGGAGAAGATCAGCTTGAAGAGGAGTTCCCTGCTGCTTCATAAACCCACCCATTGGGACAGTGACCC
CTGCTCTGAAGCTACCAAACCATCCAGGTTCCACAGCAGAAAGCCATGGCACCATTTCATCCCCATCTGCCG
GAATGAGAATCAATGTTGTCAATAACCACCAGGCCAAACAGAATTTATATGACCTGGATGAAGATGATGATGGTA
TAGCTTCCGTTCTACTAAACAGATGAAGTTTGACGCTCAGGCGGCTTTCTCCACCACATGGCTGGGCTAAGCA
GTTCCAAGCTTTCCATGTCCAAGGCCCTCCCTCTACCAAAGTGGTTCAGAATGATGCATACACAGCTCCTGCTC
TCCCTTCCCTCTATTGCAACAAAAGCCTTGACCAACATGTCCCGGACACTGGTGAACAAGGAAGAACCCCCAAAG
AGCTGCCAGCTGCTGAGCCTGTTCTCAGCCCATTGGAAGGCACCAAGATGACTGTGAATAATCTGCACCCCTCGAG
TCACTGAGGAGGACATTGTTGAGCTTTTCTGTGTGTGTGGGGCCCTCAAGCGAGCTCGACTGGTCCATCCTGGGG
TAGCGGAGGTGGTGTGTTGTGAAAAAGGACGATGCCATCACCGCATATAAGAAGTACAACAACCGGTGTCTGGACG
GGCAGCCGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGCGGCTGA
GTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGGGTGAACCTCTGCCTCCTCTCCAACCCCCCTG
CCGAAGTGGACCTTGACACCATCTGAAGGCACTCTTCAAGTCTCAGGGGCCCTCTGTGACCACGCAGCCACAG
AATTCAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAGTGGGGGCAGAGGAGGGTGGCTCTGTTTCCCC
AAGGCAAAGCTTATGACCAATGGCCATCGGACTGGAGACCCCTGATTGTGGGAAGGGTTGCCAGGGATAAAGAG
CTTCTCACITGGATGGGACCCGCCCTTTCTGTGTTGTGTTCTGCCCTGTGCTCTTCTCTACGTTAACGTTTCCT
GTAGTATGTTTCTTCATCTCATCGCCAAGGTAGGCTTGTGTTTTTTCAGTGTGTGCCTCCCCGAGCCTCAGCCCCA
AGCTGATTTCTTATCTGGAATGTTACACTGAATTCCTGCGGTGGCTTTCTTGTGGCCCCATGGGATGCAGCGTG
GGGGCTGTCTGAAGGACCCCTGCTTTTTCCAGGGGCCGAGGGGCTGCCTTTCTTTGTGTGTTAAGCTTTTCAA
ACAATGGAGGGGATGGAGAGCCCTGGTGTCTTGACGGGAGCCAGGTCGGCCTGAGAGCTGTGCCGCTCCTCTGTC
TTGTCACTGGAGGTGCCTGGGTGGGAGCAGGCTCAGGCCTCTTGCTCTCCCCAGTGGCTCCAGGCCTCACT
AGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTATCTAAGCTCTTGGCTTGGAGTCCCGTGTCTGTC
TCCACCCAGAGGAAGTTCTCCAGAGTTCACCTTTCCCTTTTCTTGAGTTGTGCTGAATGCCCCACCCAGCTCT
CTTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGAGCCCTCCCGGTTCTCACCTCGCTGGCACTT
AACCACACCCCTGTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTGGGCCTTTGAAAGGCTCAGCCTCCCATTTGTGC
AGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTGAGTTTGTTCCTGGCTCTCCATTCTGGCCTCAGTTGT
CTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCTGCCACCAAGGGGCACTGTTTGTTCCTACTTA
TGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTTCTGCTTGGCAGAGGAGGAGTCAAGGGAGCA
GGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGACAGTTGGGACGAACTTCAGAGCCCAGGCAG
TCCCTGAATGACCAGGCCAGTGTGTCACTGAGTGGTCCCCTGCTGGTTGGGAGTGAAGAGAATCCAGGCTGGCA
GAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAAATCAGTAGCAAGTGCTGGAAGGCACATGC
CGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCAGTGAAAAAACCAGAGACTCATGTTTCCAGG
GGTCAGTCTGTCAAGGCAGGAAGGACCCAGGATTGAACCCAGCTTCAGTGTGCAGGCTCTGAGGCTGCCAGGAC
GGGAAAGTCCAAGGAAGGGGCCCTGGTGGTGTCTCACTTGCACTTCTTTAAAGAATGCTGCTTTTTATTCTCTTAA
CCCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACATTCCTCCACACTTTTCCCTTCTGCCCCAA
GAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTACTGGGAGCCGGGGGCTCACTGCTTGCAGTGTGCTT
AGGGTAGGGATGGTAAATATCTCCCTGCATGGCTTTATCCTCCCTCTCATCCAAAGCAGGTATCTTCTGGTTG
TCACAGAGTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTGGAGCTGGTGTATAGGTGACCATCTGGTACA
TTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCTTGGGAGACCGGGAGGAGAAGGTGGTGGGCTA
GTCTGTGTCTCTCCACTTCCCATGCCTCTATGTTACCCATCTGTGTCTCTGTGCAGAAGGAGAGGAAGGGG
CATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTCTGAATAAACATTTGTTATTCTT

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FIGURE 6092

MADISLDELIRKRGAAAKGRLNARPGVGGVRSRVGIQQGLLSQSTRTATFQQRFDARQKIGLSDARLKLGVKDAR
EKLLQKDARFRIKGVQDAREMLNSRKQQTTPQKPRQVADAREKISLKRSSPAAFINPPIGTVTPALKLTKTIQ
VPQQKAMAPLHPPAGMRINVVNNHQAKONLYDLDEDDGIASVPTKQMKFAASGGFLHHMAGLSSSKLSMSKAL
PLTKVVQNDAYTAPALPSSIRTKALTNMSRTLNVNKEEPPKELPAAEPVLSPLEGTKMTVNNLHPRVTEEDIVELF
CVCGALKRARLVHPGVAEVVFKDDAITAYKKYNNRCLDGQPMKCNLHMNGNVITSDQPIILLRLSDSPSMKKES
ELPRRVNSASSSNPPAEVDPDTILKALFKSSGASVTTQPTFEFKIKL

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FIGURE 6093

CCATATGGTGCTCTTCCCAGTCTGGTTCCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCACGCCAGCCAT
CACCCTCGAGAGCCCGGGTTCAGCCTGGCCTGCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCCTTGGAG
CCCCTTCGGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCTGCCTGGCACTTACT
GGTCTTTACCAGAGACGCCCAGCCCCATCCCTGTCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGC
TGAGGGCTGCCAGCAGCCCCGTCTGCCACCATTCCCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACAT
GGGCAGCCCAAAGCTGCAGGTGCCAGGGCCCACCCAGCCTCGCCTGTCACCCCACTCCCGCCTCAGGGCCAGG
CCCAGGCCTCACCACCTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCC
AGGGCCCTGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGTCCTGGG
CTGGGGCCACCATCCCTGATGGCAGAACTCCCAACCACATGTATTTATTCTCTGTCTAAACCGTCCCCTCC
TTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCTCTTGTCTGAGGGACATATCAGTGACCTCGACGTTG
CCTTTAGACTACAGTTGTGTTAGCCTCTTGCCTATTGGCTTTTTTCAGAGTCATTTATGAGCAGAAAAAAAAAAG
TAAAACTTTGCTAATATT

6601/6881
FIGURE 6094

CGCGACGGTCTCGGCGGGCGGCGGGCGGCGGCGACAGAGCGAGCGGCGGCGGGGCCACCATGGGGGCCAGCTCAG
CACGTTGGGCCATATGGTGCTCTTCCCAGTCTGGTTCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCAC
GCCAGCCATCACCTTCGAGAGCCCGGACATCAAGTACCCGCTGCGGCTCATCGACCGGGAGATCATCAGCCATGA
CACCCGGCGCTTCCGCTTTGCCCTGCCGTCAACCCAGCACATCTGGGCCTCCCTGTCGGCCAGCACATCTACCT
CTCGGCTCGAATTGATGGAAACCTGGTCGTCCGGCCCTATACACCCATCTCCAGCGATGATGACAAGGGCTTCGT
GGACCTGGTCATCAAGGTTTACTTCAAGGACACCCATCCCAAGTTTCCCGCTGGAGGGAAGATGTCTCAGTACCT
GGAGAGCATGCAGATTGGAGACACCATTGAGTTCCGGGGCCCCAGTGGGCTGCTGGTCTACCAGGGCAAAGGGAA
GTTCCGCTATCCGACCTGACAAAAAGTCCAACCCATCATCAGGACAGTGAAGTCTGTGGGCATGATCGCGGGAGG
GACAGGCATCACCCCGATGCTGCAGGTGATCCGCGCCATCATGAAGGACCCTGATGACCACACTGTGTGCCACCT
GCTCTTTGCCAACAGACCCGAGAAGGACATCTGCTGCGACCTGAGCTGGAGGAACTCAGGAACAAACATTCTGC
ACGCTTCAAGCTCTGGTACACGCTGGACAGAGCCCTGAAGCCTGGGACTACGGCCAGGGCTTCGTGAATGAGGA
GATGATCCGGGACCACCTTCCACCCCCAGAGGAGGAGCCGCTGGTGCTGATGTGTGGCCCCCACCACATGATCCA
GTACGCCTGCCTTCCCAACCTGGACCACGTGGGCCACCCACGGAGCGCTGCTTCGTCTTCTGAGGGCCGGGCAC
GGTCACACGGCCACCCGCCCCGCGCACCCACGCCCTGTTACGCTCACCCAGTCACCTCCCCACATCGCACACT
GGGGCCCCGGGTTAGCCTGGCCTGCCCCTGGTGAATCACCTGGCTGAGCAGTTCCCCTGGAGCCCCCTTC
GGGAGCAGGGCTGTGTCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCCTGCCTGGCACTTACTGGTCTCTT
ACCAGAGACGCCCAGCCCCATCCCTGTCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGCTGAGGGC
TGCCAGCAGCCCCGTCTGCCACCATTCGCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACATGGGCAGC
CCAAAGCTGCAGGTGCCAGGGCCACCCAGCCTCGCCTGTCACCCCCACTCCCGCCTCAGGGCCAGGGCCAGGC
CTCACCACCTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCAGGGCCC
TGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGCCCTCCAGAACCT
CAGCATTTCTTCCAGCCCATCCAAACACTGAGGCAGCCTTGGGGAACCCCGAGCTGGGGGGTTGGCAGCCCACT
GCACCGCCTCAGGGTTTTTGGGGTCTTGGGCTGGGGCCACCATCCCTGATGGCAGAACTCCACAAACCACATGTAT
TTATTCTCTGTCTAAACCGTCCCCCTCCTTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCTCTTGTC
TGAGGGACATATCAGTGACCTCGACGTTGCCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTCA
GAGTCATTTATGAGCAGAAAAAAAAGTAAACTTTGCTAATATT

6602/6881
FIGURE 6095

AGCGGCCTGGCTAACTCCTGCCAGGCAGTGCCCTTCCCGGAGCGTGCCCTCGCCGCTGGTACGGCTCCTACCTGG
TCTGGAAAGAGCTGGGAGGCTTCACAGAGAAGGCTGTGGTTCCCTGGGCCTCTACACTGGGCAGCTGGCCCTGA
ACTGGGCATGGCCCCCATCTTCTTTGGTGCCCGACAAATGGGCTGGGCCTTGGTGGATCTCCTGCTGGTCAGTG
GGCGGGCGGCAGCCACTACCGTGGCCTGGTACCAGGTGAGCCCGCTGGCCGCCCGCTGCTCTACCCCTACCTGG
CCTGGCTGGCCTTCGCGACCACACTCAACTACTGCGTATGGCGGGACAACCATGGCTGGCATGGGGGACGGCGGC
TGCCAGAGTGAGTGCCCGGCCACCAGGGACTGCAGCTGCACCAGCAGGTGCCATCACGCTTGTGATGTGGTGGC
CGTCACGCTTTTCATGACCACTGGGCCTGCTAGTCTGTGTCAGGGCCTTGGCCCAGGGGTCAGCAGAGCTTCAGAGGT
TGCCCCACCTGAGCCCCACCCGGGAGCAGTGTCTGTGCTTTCTGCATGCTTAGAGCATGTTCTTGGAACATGG
AATTTTATAAGCTGAATAAAGTTTTTGACTTCCTTT

6603/6881
FIGURE 6096

MAPHLLWCPTNGLGLGGSPAGQWGGGSHYRGLVPGEPA GRPPALPLPGLAGLRDHTQLLRMAGQPWLAWGTAAAR
VSARPTRDCSCTSRCHHACDVVAVTLS

6604/6881

FIGURE 6097

ATGGAGGCCGAGCGGGGTCCCGAGCGCCGGCTGCGGAGCGTAGCAGCCCGGGCCAGACGCCGGAGGAGGGCGCG
CAGGCCCTTGCCGAGTTCGCGGCGCTGCACGGCCCGCGCTGCGCGCTTCGGGGGTCCCCGAACGTTACTGGGGC
CGCCTCCTGCACAAGCTGGAGCACGAGGTTTTTCGACGCTGGGAAGTGTTTGGGATCATGCAAGTGGAGGAGTA
GAAGAGGAGGAGGACGAGGCAGCCCGGGAGGTGCGGAAGCAGCAGCCCAACCCGGGAACGAGCTGTGCTACAAG
GTCACTGTGACCAGGAGAGCGGGCTCCAGGCAGCCACCCCAACAGCATCTTCTCATCGACCACGCCTGGACG
TGCCGTGTGGAGCACGCGGCCAGCAGCTGCAGCAGGTGCCCGGGCTGCTGCACCGCATGGCCAACCTGATGGGC
ATTGAGTTCACGGTGAGCTGCCCAGTACAGAGGCTGTGGCCCTGGTGTGCTGGAGGAGATGTGAAGTTCAACCAG
ACCTACCAGCTGGCCCATGGGACAGCTGAGGAGAAGATGCCGGTGTGGTATATCATGGACGAGTTCGGTTCGCGG
ATCCAGCACGCGGACGTGCCAGCTTCGCCACGGCACCTTCTTCTACATGCCGAGCAGGTGGCCTACACGCTG
CTGTGGCCCTGAGGGACCTGGACACTGGCGAGGAGGTGACCCGAGACTTGCCTACGGAGAGACGGACCCCTG
ATCCGGAAGTGATGCTGCTGCCCTGGGCCCCCACCACATGCTGGACCTCAGCTCTTGACACCCGAGCCGCCC
GCCGAGCACTACCAGGCCATTCTGGAGGAAAACAAGGAGAAGCTGCCACTTGACATCAACCCCGTGGTGCACCCC
CACGGCCACATCTTCAAGGTCTACACGGACGTGCAGCAGGTGGCCAGCAGCCTCACCCACCCGCGCTTACCCTC
ACCCAGAGTGAGGCGGACGCCGACATCTTCAACTTCTCACACTTCAAGGACTACAGGAACTCAGCCAGGAG
AGGCCAGGCGTGCTGCTGAACAGTTCCCTGCGAGAACCTGCTGACTGTCAAGGACTGCCTGGCCTCCATCGCG
CGCCGGGACAGGTGGCCCGAGGGCCACCCTGGCTGCCCGAACCTTCAACCTGCGCACTGAGCTGCCCCAGTTT
GTCAGTACTTCCAGCAGCGGAAAGGTGGGGCGAGGACAACCACTGGATCTGCAAGCCCTGGAACCTGGCGCGC
AGCCTGGACACCCACGTACCAAGAGCCTGCACAGCATCATCCGGCACCAGAGAGACACCCCAAGGTTGTGTCC
AAGTACATCGAAAGTCCCGTGTGTTCCTTCGAGAAGACGTGGGAAAGGTCAAGTTCGACATCCGCTACATCGTG
CTGTGCGGTCAGTGAGGCCCTACGGTTGTTCTGTGTATGATGTGTTCTGGCTGCGGTTCTCCAACCGGGCCTTT
GCACTCAACGACCTGGATGACTACGAGAAGCACTTACGGTTCATGAACATGACCCGGATGTGGTGTGAAGCAG
GTGCACTGTGAAGAGTTCATCCCCGAGTTTGAGAAGCAATACCCAGAATTCCCTGGACGGACGTCCAGGCTGAG
ATCTTCCGGGCTTACGGAGCTGTTCCAGGTGGCCTGTGCCAAGCCACCACCCCTGGGCCCTGCGACTACCCC
TCATCCCGGGCCATGTATGCCGTCGACCTCATGCTGAAGTGGGACAACGCGCCAGATGGAAGCGGGGTGATGCAG
CCGAGATCCTGGAGGTGAACCTTCAACCCGACTGTGAGCGAGCCTGCAGGTACCACCCACCTTCTTCAACGAC
GTCTTACGACCTTGTTCTTGACCAGCCCGGTGGCTGCCACGTTACCTGCCTTGCTTAGGCACTCGCTGTCCCC
AAAACCTGTGCTTGGGGCAGGATTCCAACCTCAGTTCTCTGAGCTGCTTCTGCAAAGGCCCCCATGTCCCTCCCC
ACACCGGCCCTGGGCATAGCCTCAGCCCCAGGCCTCTGTCTGCCGAGCCATCTCCCGGGCCACACTCCGGGA
GCACAGCATCCTCCTCTCACCTGTGGGTACAGCAGGACAGTGATGGTGTCCCCAGGGCTGAGCACCACCCACG
CCCTGCCCTCACCCCTACCAACATCTGTGCACTGATGAGTCTCCAGTTTAGCCAAGGGCTTGTTCCTGGCATG
GAGAATTTGTTCTTGCTGCTGTGTTTCCAGGGGGTGCTGGGGGAAGGGTTCCGTGGAGCGAGACAAGGTGTCT
CGGGAGCAGGGTTCCACCGGAAGCGTTTGGGAGCCCTGTATCACAGGGGCAGGCGGGTTTCTCTTCCGGGGTC
TCTGCTCTTATGCATCAGGACGACCCCGGGACGGCTGTGGGGCCCCCACTGCACCCACAGGGCTCTATGCGACA
GGGGCCAGGAACAGCCTGAGGCCACCCAGCAAGCCCGCCTTATCACCCATTCCAGCTCACCCAGAACCTTC
ACCAGCAAACCTCCTGCTGAGGTCTTGCGAGGAGGCCACCGTCTTGTTACCGTTTCTTTTCTGTTTGTGAGGGT
CACAGACCCCAACAGGGAATCAGTATCTGTCTTCCAGTGGTTGCCCTGCTCGCCGGGCACTCCACGGGGTCCC
GCCCTTGTTGTGAGATGGGCCAGGATCCTTCGGCAAGGGGCGCCTGGGGCTGGGGCTGATTGTGGGCGGTGGAGCG
CCAGACAGAAAAGGATTCCAATGAGAACTTCAGGTTAAAGTCAGATGCCACCTACCAGGTCTACAGTCAAAATG
TTGGCTTTTTCTTATTTTTTAATGATGGGAGAAAAATGTAATAATCCAGTCTTTTTCTAATTGTGTTTCTGAAA
TTAGGAGTCAGCTGCCAGCGTTTTTGTGTGGCTGCAGTGTGCCTGGGCCCAGCTCACGGGCAGTGGGTGGACCTA
ACTGCCAGGCAGGCAGAGCTACTTCCAGAGCCTTCCAGTGCATGGGAGGGCAGGGCTAGGTGTAGCGGTGTCT
CCTCTTTGAAATTAAGAACTATCTTTCTGTAGCAAAGCTGCACCTGATGATGCTGCCTCTCCTCTCTGTGTTGT
CTGGGCCCTTGTTTTACAAGCACGCGTTACCCTTCTGAGGGGAGCCATGCTCTAGCCCCTGAGGGGCTGTTGCA
GGGGCAGGGCGGGGCCGTGCGCTTTGGCAGCTCCTGGAGAGCTGTGGACATGCAGTCCCCCTCAGTTCGTGCTGC
AATAAAGGCCATCTTCTCTTA

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FIGURE 6098

MEAERGPERRPAERSSPGQTPEEGAQALAEFAALHGPA LRASGVPERYWGRL LHKLEHEVFDAGEVFGIMQVEEV
EEEEDEAAREVRKQQPNPGNELCYKVIIVTRESGLQAHPNSIFLIDHAWTCRVEHARQQLQQVPGLLHRMANIMG
IEFHGELPSTEAVLVLEEMWKFNQTYQLAHGTAEKMPVWYIMDEFGSRIQHADVPSFATAPFFYMPQQVAYTL
LWPLRDLDTGEEVTRDFAYGETDPLIRKCM LLPWAPTMDL DLSSCTPEPPAEHYQA ILEENKEKLPLDINPVVHP
HGHIFKVYTDVQQVASSLTHPRFTLTQSEADADILFNFSHF KDYRKLSQERPGVLLNQFPCENLLTVKDCIASIA
RRAGGPEGPPWLPRTFNLRTelpQFVS YFQQRERWGEDNHWICKPWNLARS LDTHVTKSLHSIIRHRESTPKVVS
KYIESPVLFLREDVGKVKFDIRYIVLLRSVRPLRLFVYDVFWLRF SNRAFALNDLDDYEKHFTVMNYDPDVVLKQ
VHCEEFIPEFEKQYPEFPWTDVQAEIFRAFTELFQVACAKPPPLGLCDYPS SRAMYAVDLM LKWDNGPDGRRVMQ
PQILEVNFNPD CERACRYHPTFFNDV FSTLFLDQPGGCHVTCLV

6606/6881
FIGURE 6099

GCGGGGAATCATGGCCGCCCCAGTGTTCCGCGTCCGGGGGTTTGTGGGAGTTGCCTTGACCTGCAGCTCCGCCA
CCGCGGACCCGCCCTTCTGCCCTCAGCAGCAGACGCTCTGTCCCGCCGGGCAGCTCTGCGAGGCAGCGGCTGGAG
AGGGAACCATGGGGACTGTGCACGCCCCGAGTTTGGAGCCTCTTCCATCAAGTGGACCTGATTTTGGAGGATTAG
GAGAAGAAGCTGAATTTGTTGAAGTTGAGCCTGAAGCTAAACAGGAAATTCTTGAAAACAAAGATGTGTTGTTC
AACATGTTTCAATTTTGATGGACTTGAAGGACTAAAGATGATATCATCATTTGTGAAATTGGAGATGTTTTCAAGG
CCAAAACCTAATTGAGGTAATGCGGAAATCTCATGAAGCCCGTGAAAAATTGCTCCGTCTTGGAATTTTGTAGAC
AAGTGGATGTTTTGATTGACACATGTCAAGGTGATGACGCACTTCCAAATGGGTAGACGTTACCTTTGAAGTAA
CTGAATTGAGGAGATTAACGGGCAGTTATAACACCATGGTTGGAAACAATGAAGGCAGTATGGTACTTGGCCTCA
AGCTTCCTAATCTTCTTGGTCGTGCAGAAAAGGTGACCTTTTCAGTTTTCCTATGGAACAAAAGAACTTCGTATG
GCCTGTCTTCTTCAAACCACGGCCCGGAACTTCGAAAGAAATTTCTCTGTAACTTATATAAAGTTACTGGAC
AGTTCCCTTGAGCTCACTGCGGGAGACGGACAGAGGAATGTGAGCTGAGTACAGTTTCCCATATGGAAGACCA
GCCACACTGTCAAGTGGGAAGGCGTATGGCGAGAACTGGGCTGCCTCTCAAGGACGGCGTCATTTGCTGTTGAA
AAGAAAGCGGACATTCAGTGAATCATCTCTTTTCGCACGCCATGGTCATCGATTCTCGGAATTTCTCCATCTTAC
CAAGGAGAGGTGCTTTGCTGAAAGTTAACCAGGAACTGGCAGGCTACACTGGCGGGGATGTGAGCTTCATCAAAG
AAGATTTTGAATTCAGTTGAACAAGCAACTCATATTTGATTGAGTTTTTTCAGCGTCTTTCTGGGGCGGAATGT
TGGTACCCATTGGTGATAAGCCGTCAAGCATTGCTGATAGTTTTACCTTGGGGGACCCACAAGCATCCGCGGAT
TCAGCATGCACAGCATCGGGCCACAGAGCGAAGGAGACTACCTAGGTGGAGAAGCGTACTGGGCCGGCGCCTGC
ACCTCTACACCCATTACCTTCCGGCCAGGCCAGGTGGCTTTGGAGAACTTTTCCGAACACACTTCTTTCTCA
ACGCAGGAAACCTCTGCAACCTCAACTATGGGGAGGGCCCCAAAGCTCATATTCGTAAGCTGGCTGAGTGCATCC
GCTGGTCGTACGGGGCCGGGATTGTCTCAGGCTTGGAACATCGCTCGGTTGGAACCTTAATTACTGCGTCCCCA
TGGGAGTACAGACAGGCGACAGGATATGTGATGGCGTCCAGTTTGGAGCTGGGATAAGGTTTCTGTAGCCGACAC
CCCTACAGGAGAAGCTCTGGGACTGGGGCAGCAGCAAGGCGCCCATGCCACACACCGTCTCTCGAGGAAACGCGG
TTCAGCGATTCTTTGACTGCGGACCCCTGTGGGAAACCCCGTCAATAAATGTTAAAGACACACTC

6607/6881
FIGURE 6100

MGTVHARSLEPLPSSGPDFGGLGEEAEFVEVEPEAKQEILENKDVVVQHVFHDGLGRITKDDIIICEIGDVFKA
LIEVMRKSHEAREKLLRLGIFRQVDVLIDTCQGDDALPNGLDVTFEVTELRLTGSYNTMVGNNEGSMVLGLKLP
NLLGRAEKVTFQFSYGTKETSYGLSFFKPRPGNFERNFSVNLYKVTGQFPWSSLRETDGMSAEYSFPIWKTSH
VKWEGVWRELGCLSRITASFAVRKESGHSLSKSSLSHAMVIDSRNSSILPRRGALLKVNQELAGYTGGDVSF
IKEDF
ELQLNKQLIFDSVFSASFWGGMLVPIGDKPSSIADRFYLGGPSTIRGFSMHSIGPQSEG DYLGGEAYWAGGLHLY
TLPFRPGQGGFGELFRTHFFLNAGNLCNLNYGEGPKAHIRKLAECIRWSYGAGIVLRLGNIARLELNYCVP
MGV
QTGDRICDGVQFGAGIRFL

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FIGURE 6101

ATGGAGCCGGAGTTCTTGTACGACCTGCTGCAGCTCCCCAAGGGGGTGGAGCCCCCAGCGGAGGAGGAGCTCTCA
AAAGGAGGAAAGAAGAAATACCTGCCACCCACTTCCCGGAAGGACCCCAAATTTGAAGAACTGCAGAAGGTGTTG
ATGGAGTGGATCAATGCCACTCTTCTCCCCGAGCACATTGTGGTCCGCAGCCTGGAGGAGGACATGTTTCGACGGG
CTCATCCTACACCACCTATTCCAGAGGCTGGCGGCGCTCAAGCTGGAAGCAGAGGACATCGCCCTGACAGCCACA
AGCCAGAAGCACAAGCTCACAGTGGTGTCTGGAGGCCGTGAACCGGAGTCTGCAGCTGGAGGAGTGGCAGGCCAAG
TGGAGCGTGGAGAGCATCTTCAACAAGGACCTGTTGTCTACCCCTGCACCTCCTTGTGGCCCTGGCCAAGCGCTTC
CAGCCCCGACCTCTCCCTCCCAACCAACGTCCAGGTGGAGGTCACTACTATCGAGAGCACCAAAAGTGGTCTGAAG
TCAGAGAAGTTGGTGAACAGCTCACTGAATACAGCACAGACAAGGACGAGCCTCCAAAGGACGTCTTTGATGAA
TTATTTAAGCTGGCTCCGGAGAAAGTGAACGCAGTGAAGAGGCCATCGTGAACTTTGTCAACCAGAAGCTGGAC
CGCCTGGGCCTGTCTGTGCAGAATCTGGACACCCAGTTTGCAGATGGGGTCATCTTACTCTTGCTGATTGGACAA
CTTGAAGGCTTCTTCTGCACTTAAAGGAATTCTACCTCACTCCCAACTCTCCTGCAGAAATGCTGCACAACGTC
ACCCTGGCGCTGGAGCTGCTGAAGGACGAGGGCCTGCTCAGCTGCCCTGTGAGCCCTGAAGATATCGTGAACAAG
GATGCCAAGAGCACACTGCGGGTGCTCTATGGTCTGTTCTGCAAGCACACGCAGAAGGCACACAGGGACAGGACG
CCCCATGGAGCCCCGAATTGA

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FIGURE 6102

MEPEFLYDLLQLPKGVEPPAEELSKGGKKKYLPTSRKDPKFEELQKVLMEWINATLLPEHIVVRSLEEDMFDG
LILHHLFQRLAALKLEAEDIALTATSQKHKLTVVLEAVNRSQLEEWQAKWSVESIFNKDLLSTLHLLVALAKRF
QPDLSLPTNVQVEVITTIESTKSGLKSEKLVEQLTEYSTDKDEPPKDVDELFLAPEKVNAVEAIVNFVNQKLD
RLGLSVQNLDTQFADGVILLLLIGQLEGFFLHLKEFYLTNPSPAEMLHNVTLALELLKDEGLLSCPVSPEIVNK
DAKSTLRVLYGLFCKHTQKAHRDRTPHGAPN

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FIGURE 6103

CTGAGCCTCTCCGTGCAATGATTAAACCCGGCGGGGCGCGCGCGGGACCCGAGACGGAGGCGCGGGGCGGGG
CGGGACCCCGCAGGACCGCTCGGCTTCCTGCTCTCGCCGGAGTTTCCGCGTAGAGGGCGCATCGCCGGCCCGGGG
CCCTTGGTGCGGCGTGGCGCAGGGCGCGGCGTGGGGCGCGCGTGGGCGCGCGCAGGCGGCCCGGGTACCATGA
GGACTCTCCGAGGTTGAAGTTCATGAGTTCGCCCAGCCTCAGTGACCTGGGCAAGAGAGAGCCGGCCCGCGCG
CGGACGAGCGGGGCACGCAGCAGCGCCGGGCTGCGCCAACGCCACCTGGAACAGCATCCACAACGGGGTGATCG
CCGTCTTCAGCGCAAGGGGCTGCCCGACCAGGAGCTCTTCAGCCTCAACGAGGGCGTCCGGCAGCTGTTGAAGA
CAGAGCTGGGGTCTTCTTCACGGAGTACCTGCAGAACCAGCTGCTGACAAAAGGCATGGTGATCCTTCGGGACA
AGATTGCTTCTATGAGGAGCTGCAGAGAGACAAGGCGGCGCGGCTGCTGTGCTGGGTGCAGTGAGGAAGAGGC
CCTCGGTGGTGCCCATGGCTGGCCAGGATCCTGCGCTGAGCAGAGTCACCCGTTCACGACGTGGCCAGACATG
GCATTCTGCAGGTGGCAGGGGATGACCGCTTTGGAAGACGTGTGTACGTTCAAGCTGCTGCCGGATGCCACCCT
CCCACGAGCTGGACCACCAGCGGCTGCTGGAGTATTTGAAGTACACACTGGACCAATACGTTGAGAACGATTATA
CCATCGTCTATTTCCACTACGGGCTGAACAGCCGGAACAAGCCTTCCCTGGGCTGGCTCCAGAGCGCATACAAGG
AGTTGCATAGGAAAGACGGGGATCTCACTATGTGGCCAGGCTGGTCTCGAACTCCAAGCTCAAGCGATCCTCCC
ACCTCAGCCTCCCAAAGTACTGGGATTACAGGTACAAGAAGAACTTGAAGGCCCTCTACGTGGTGACCCCCACCA
GCTTCATCAAGGTCTGTGGAACATCTTGAAGCCCTCATCAGTCACAAGTTTGGGAAGAAAGTCATCTATTTCA
ACTACCTGAGTGAGCTCCACGAACACCTTAAATACGACCAGCTGGTCATCCCTCCCGAAGTTTTCGGGTACGATG
AGAAGCTCCAGAGCCTGCACGAGGGCCGGACGCCGCTCCACCAAGACACCACCGCCGCGGCCCGCGTGGCCA
CACAGCAGTTTGGCGTCAGTCTGCAATACCTCAAAGACAAAAATCAAGGCGAACTCATCCCCCTGTGCTGAGGT
TCACAGTGACGTACCTGAGAGAGAAAGGCCTGCGCACCGAGGGCCTGTTCCGGAGATCCGCCAGCGTGCAGACCG
TCCGCGAGATCCAGAGGCTCTACAACCAAGGGAAGCCCGTGAACCTTGACGACTACGGGGACATTACATCCCTG
CCGTGATCCTGAAGACCTTCCTGCGAGAGCTGCCCCAGCCGCTTCTGACCTTCAGGCCTACGAGCAGATTCTCG
GGATCACCTGTGTGGAGAGCAGCCTGCGTGTCACTGGCTGCCGCCAGATCTTACGGAGCCTCCCAGAGCACAAC
ACGTGCTCCTCCGCTACCTCATGGGCTTCCTGCTGCGGTGTCCCGGGAGAGCATCTTCAACAAAATGAACAGCT
CTAACCTGGCCTGTGTCTTCGGGCTGAATTTGATCTGGCCATCCAGGGGGTCTCCTCCCTGAGTGCCCTGTGC
CCCTGAACATGTTCACTGAACTGCTGATCGAGTACTATGAAAAGATCTTCAGCACCCCGAGGCACCTGGGGAGC
ACGGCCTGGCACCATGGGAACAGGGGAGCAGGGCAGCCCCCTTTCAGGAGGCTGTGCCACGGACACAAGCCACGG
GCCTACCAAGCCTACCCTACCTCCGAGTCCCCTGATGGCAGCCAGAAGACGTCTCTAGTGTGCGAACACTCTG
TATATTTGAGCTACCTCCACACCTGTCTGTGCACTTGTATGTTTTGTAACTTGGCATCTGTAAAAATAACCA
GCCATTAGATGAATTCAGAACCTTCTAATGAAAACCTCATGCCTCTGGTCTTGGACTCTTGTCCATGGTTCCTG
AGCTGTGGACCGGGATAGAAT

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FIGURE 6104

GGCCCAGGCTGAAGCTCAGGGCCCTGTCTGCTCTGTGGACTCAACAGTTTGTGGCAAGACAAGCTCAGAACTGAG
AAGCTGTCAACCACAGTTCTGGAGGCTGGGAAGTTCAAGATCAAAGTGCCAGCAGATTTCAGTGTATGTGAGGACG
TGCTTCTGTCTTCATAGATAAGAGCTTGGAGCTCGGCGCACAACCAGCACCATCTGGTCGCGATGGTGGACACGG
AAAGCCCCTCTGCCCCCTCTCCCCCTCGAGGCGGCGATCTAGAGAGCCCGTTATCTGAAGAGTTTCTGCAAG
AAATGGGAAACATCCAAGAGATTTTCGCAATCCATCGGCGAGGATAGTTCTGGAAGCTTTGGCTTTACGGAATACC
AGTATTTAGGAAGCTGTCTGGCTCAGATGGCTCGGTTCATCAGGACACGCTTTTACCAGCTTCGAGCCCCCTCT
CGGTGACTTATCTGTGGTCCCCGGCAGCGTGGACGAGTCTCCAGTGGAGCATTGAACATCGAATGTAGAATCT
GCGGGGACAAGGCCTCAGGCTATCATTACGGAGTCCACGCGTGTGAAGGCTGCAAGGGCTTCTTTGGGCGAACGA
TTCGACTCAAGCTGGTGTATGACAAGTGCGACCGCAGCTGCAAGATCCAGAAAAAGAACAGAAAAAATGCCAGT
ATTGTGATTTTACAAGTGCCTTTCTGTCGGGATGTCACACAACGCGATTCTGTTTGGACGAATGCCAAGATCTG
AGAAAGCAAACTGAAAGCAGAAATTCTTACCTGTGAACATGACATAGAAGATTCTGAACTGCAGATCTCAAT
CTCTGGCCAAGAGAATCTACGAGGCCTACTTGAAGAACTTCAACATGAACAAGGTCAAAGCCCCGGTTCATCTCT
CAGGAAAGGCCAGTAACAATCCACCTTTTGTATACATGATATGGAGACACTGTGTATGGCTGAGAAGACGCTGG
TGGCCAAGCTGGTGGCCAATGGCATCCAGAACAAGGAGGCGGAGGTCCGCACTTTTCACTGCTGCCAGTGCACGT
CAGTGGAGACCGTACGGAGCTCACGGAATTCGCCAAGGCCATCCCAGGCTTCGCAAACTTGGACCTGAACGATC
AAGTGACATTGCTAAAATACGGAGTTTATGAGGCCATATTCGCCATGCTGTCTTCTGTGATGAACAAAGACGGGA
TGCTGGTAGCGTATGGAAATGGGTTTATAACTCGTGAATTCCTAAAAAGCCTAAGGAAACCGTTCTGTGATATCA
TGGAAACCAAGTTTGATTTTGCCATGAAGTTCAATGCACTGGAAGTGGATGACAGTGATATCTCCCTTTTGTGG
CTGCTATCATTTGCTGTGGAGATCGTCTGGCCTTCTAAACGTAGGACACATTGAAAAAATGCAGGAGGGTATTG
TACATGTGCTCAGACTCCACCTGCAGAGCAACCACCGGACGATATCTTTCTTTCCCAAACTTCTTCAAAAA
TGGCAGACCTCCGGCAGCTGGTGACGGAGCATGCGCAGCTGGTGCAGATCATCAAGAAGACGGAGTCGGATGCTG
CGCTGCACCCGCTACTGCAGGAGATCTACAGGGACATGTACTGAGTTTCTTCAGATCAGCCACACCTTTTCCAGG
AGTTCTGAAGCTGACAGCACTACAAAGGAGACGGGGGAGCAGCAGGATTTTGCACAAATATCCACCACTTTAACC
TTAGAGCTTGGACAGTCTGAGCTGTAGGTAACCGGCATATTATCCATATCTTTGTTTTAACCAGTACTTCTAAG
AGCATAGAATCAAATGCTGGGGGAGGTGGCTAATCTCAGGACTGGGAAG

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FIGURE 6105

MVDTESPLCPLSPLEAGDLESPLSEEFLOEMGNIQEISQSIGEDSSGSFGFTEYQYLGSCPGSDGSVITDTLSPA
SSPSSVTYPVVPGSVDESPSGALNIECRICGDKASGYHYGVHACEGCKGFFRRTIRLKLVDKCDRSCQKKNR
NKCQYCRFHKCLSVGMSHNARFGRMPRSEKAKLKAELTCEHDIEDSETADLKSLAKRIYEAYLKNFNMNKVKA
RVILSGKASNNPPFVIHDMETLCMAEKTIVAKLVANGIQNKEAEVRIFHCCQCTSVETVTELEFAKAIPGFANL
DLNDQVTLLKYGVYEAIFAMLSVMNKDGMVLVAYNGFITREFLKSLRKPFCDIMPKFDFAMKFNALELDDSDI
SLFVAAIICGDRPGLLNVGHIEKMQEGIVHVLRLHLQSNHPDDIFLFPKLLQKMADLRQLVTEHAQLVQIIKKT
ESDAALHPLLQEIIYRDMY

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FIGURE 6106A

CAACTTCCGGAAGGAGGCGGAAGAGCTTCTCGGCTCTAGGCTCTGGAGTCCCAGGAGCAGTGAGGGGCCACCCGG
GGCACAGGAAAGGGCCGCTAGGGGAGGGCCGGGTGCACTCGGGGTGTCTGGGCCGCGGGTCTGAGGGATGAGGAG
GGGCCATGGCCAGCGACGGGGCCAGGAAGCAATTCTGGAAGCGCAGCAACAGCAAGCTCCCAGGAGCAGCATCCAGC
ACGTGTATGGTGGCCAGCACCCCCCTTTGATCCACTGTTACATGGCACTTTGCTCAGGTCCACGGCCAAGATGC
CGACCACACCAGTGAAGGCCAAGAGGGTCAGCACCTTCCAGGAGTTTGAGAGCAATACCAGCGATGCCGAGGACG
CTGGGGAGGACGAGATGAGCTCCTGGCCATGGCGGCGGAGAGCCTGAACTCCGAGGTGGTTCATGGAGACGGCCA
ACCGTGTGCTGCGTAACCACAGCCAGCGGCGAGGGGCGGCCACGCTGCAGGAGGGGCCAGGGCTTCAGCAGAAGC
CCAGGCCCGAGGCAGAGCCGCCCTCACCCCCAGCGGCGACCTCCGGCTGGTGAAGTCGGTCAGTGAGAGCCACA
CGTCTGTCTGTCAGAAAGTGCCAGCGATGCCGCCCTCTGCAGAGGTCCCAGTCTCTCCACACTCGGCCACCG
TCACGCTGGGTGGCACATCTGACCCAGCACTCTCAGCAGCTCAGCGCTGAGCGAAAGAGAGGCCTCCCGGCTCG
ACAAGTTCAAGCAGCTGCTTGCCGGCCCCAACACGGACCTTGAGGAATTACGAGGTTGAGCTGGTCCGGAATCC
CTAAGCCAGTGCCTCCAATGACGTGAAGCTCCTCTCAGGTTACCTTCCCGCCAATGTAGACCGGAGACCAGCCA
CTCTCCAGAGAAAACAAAAGAATAATTTGCATTTATTGAGCACTATTACGATTCTAGGAACGACGAAGTTACCC
AGGACACATACAGGCAGATCCACATAGACATCCCTGCGATGAGCCCTGAAGCGTTGATCCTGCAGCCCCAAGGTGA
CGGAGATTTTTGAAAGGATCTTGTTCATATGGGCGATCCGCCACCCAGCCAGTGGATACGTTTCAGGGTATAAATG
ATCTCGTCACTCCTTTCTTTGTGGTCTTCATTTGTGAATACATAGAGGCAGAGGAGGTGGACACGGTGGACGCTCT
CCGGCGTGGCCGAGAGGTGCTGTGCAACATCGAGGCCGACACCTACTGGTGCATGAGCAAGCTGCTGGATGGCA
TTCAGGACAACCTACACCTTTGCCCAACCTGGGATTCAAATGAAAGTGAAAATGTTAGAAGAACTCGTGAGCCGGA
TTGATGAGCAAGTGACCCGGCACCTGGACCAACACGAAGTGAGATACCTGCAGTTTGCCTTCCGCTGGATGAACA
ACCTGCTGATGAGGGAGGTGCCCCGCGTTGTACCATCCGCCTGTGGGACACCTACCAGTCTGAACCGGACGGCT
TTTCTCATTTCCACTTGTACGTGTGCGTGTCTTTTCTCGTGAGATGGAGGAAGGAAATACTAGAAGAAAAGATT
TTCAAGAGCTGCTGCTCTTCTCCAGAACCTGCCCCACAGCCCACTGGGATGATGAGGACATCAGCCTGTTGTCTGG
CCGAGGCCCTACCGCCTCAAGTTTGTCTTTGCCGACGCCCCCAATCACTACAAGAAATGAGCCCAGGCCACCCGC
AGCTGGCCTCACTGTCCCGGGTGGCGCGCCCCACCTGCCTGGCTGGTGGTAGGCCCTGTGAGCTGGTCCCGGGC
TGCTAAAAGGCCTTGTGAGGTGGCCCCACCTCCAGGGGAGCTGGTGAAGATGGGCCACAGACCTGGTCTAGGGC
TGACAAAGACAGGGACAGCCTTTGTTTTCTGAGATACCAAAGAGAGCCAGGGGAGGGCCCCGGGTTCGGCGGCCA
GAGGCAGGTGAGGGTCCCCTCTCCCTCTCCCTGCAATGTCCTTGCCAAATGACTGCCTCGTGCTGCCCTAGTC
CGGGGACGCTAGGAGGCCGACCTCTTTGGAGTCTGCTGTCTGGGTGCCAGGGCCGGAACGAGGTAGTGGCCA
TCTCATACCTACTCTGAAATGCAAACTTCTATTCTGTTGAGTGAAAGAATAAAATGTAGACAAAATCTAGACCG
AGACGTTGCGCTGACCCGGGGTCTCTGTGCCGCGAGGTCCCCTCACAGCTGTATTTCACTGCTGCTGGCCCTTTC
CCTCGTGTTGTTTTCTGCTTGTGTTGTTAAACGTGGCTGGGAAGCTGAAGGCTGGAGTCCAAGCCGTGAGCCC
GCCGAGTGCTGGGAGGCGGTGGGACCAAAGGCTGGGAGCAGAGGGAGGCCTCGCCATCGCCTTACTTTCCACCT
TGAACCTCTTTTACAAGAGAGAAACCCCACTCCCTGAGGTCCAGGGCCAAGTGGCCCCGCCACGCAGGTAGGC
GCCGCGCTCAGCCAGAGCCCCTGGAGGCCACCCAGGCTGTCCGGGCCATGTTGGGCTGGCAGACGGGCAGGGGT
CGCGTCCCTGTATCAAAGCCCTGAACCACAGTGCTCTTCTACCCGACGCTGGAAGCGGAATGAGCTTTTGGAG
ACTTCTGGGACTTGCTGTCTTGTCCAGGTCTGCCAGGTGTAGGGGAGGTGTGACTGGTTCCATCATGGACCGG
TTCTTCCATGGACCGGTTCTCCGTGGACCGGTTCCGCCATGGACCGGTTCCGCCATGGACCACTCCTGCCCTGG
ACCACTCCTGCCCTGGACCGGTTCTGCCGTGGACTGGTTCCCGCCGTGGACCACTTCCCGCTGTATCTGTTCT
GCCCTGGACTGGTTCCCGCTGTGGACTGGTTCCCTGGGGCTCTAAGTGCGGAAGGGCCAGAGCTGGTCCCTGCC
CAGCGCCCTGCTAGGGCTGTGCTTGGCTCCAGGGGCTTGGGACTGGCTTCCAGCGTTCCCTCGGTGTGTCA
CAGGCTGCATGACCCCTGGAATGCGGGCAGGGCCACAGCCACAGTCTGTCTGATCCCTGAGCCAGGACAGGCTC
ACGTCTCAGCGACCACTGGTGACTGACTTCCAGACTCTCCTCTGTCCCTCAGGAGCAGCCGTGTCTCTCC
AGGCCCTAGGACACTGCCAGAGACTGTGGGACATACAGGCATAAGTGATGTGTGTGTTTCTGCTTCTGTTTTAA
AATCCAGGGTCATTACACACAGCATGGAATTAGCACAAAATGCTGTGCAACGTCAGATGCTCCCAAACAGCA
AAGGGATGGGCTTGCTTACATCAGATGCGGGCAGCGCTTACCCTGCCTTCCGTGTCCCCACCCAGGGTCAAG
GGTTCTCAGACCAGCCATGCCTCCTCCTGCGCCTCCTTTCTAGATGGGGAGGGGATTCCGTCAACAAGAA
GAGCCGCCCTCGGCCGTGTGCAGGAAGCCCCATGTGCTTTGCCGAGATCAGCCCTGGGAGGATCCCCCTCTCC
AGCTCAGATCATGCCGTGTGGCCAGAAGGTGCGGACACAAGTACCTGCTTCTCGAGGTGGTTGATGTTTTAA

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FIGURE 6106B

CAGGAAGCTCCACGGAGTTCAGCCCTGTGTGCATTCCTCATGTATGTAAACGCCAAGACTGAATGTGAGAGGTG
TTGGCCGCGGGCCTTAAGTCTGAGCAGATCCATCTGGAATGTTGCGGGTGTGCTGTCTGGATGTGGTGGCTAAA
AACACGGAATAAAGATCAGTGAC

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FIGURE 6107

MASDGARKQFWKRSNSKLPGSIQHVYGAQHPPFDPLLHGTLRLSTAKMPTTPVKAKRVSTFQEFESNTSDAWDAG
EDDDELLAMAAESLNSEVVMETANRVLRNHSQRQGRPTLQEGPGLQOKPRPEAEPPSPPSGDLRLVKSSESHTS
CPAESASDAAPLQRSQSLPHSATVTLGGTSDPSTLSSSALSEREASRLDKFKQLLAGPNTDLEELRRLSWSGIPK
PVRPMTWKLLSGYLPANVDRRPATLQRKQKEYFAFIEHYDSRNDVHQDTYRQIHIDIPRMSPEALILQPKVTE
IFERILFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEVDTVDVSGVPAEVLNCNIEADTYWCMSKLLDGIQ
DNYTFAQPGIQMKVKMLEELVSRIDEQVHRHLDQHEVRYLQFAFRWMNNLLMREVPLRCTIRLWDITYQSEPDGFS
HFHLYVCAAFVLRWRKEILEEKDFQELLLFLQNLPTAHWDDDISLLLAAYRLKFAFADAPNHYKK

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FIGURE 6108A

GTCCGGCGGGCGTCCGGGGCGGGCGGGCGGGGGCGGGAGGGGCGGGGGGCGAGACAAAGCCGCGGTAATGAA
TGGAGCGTCCGCCCCGCGCCGCGTCCGTCAGCCGGCCGGGAGCCGCCCCAGAGGCCGGGCGAGGTAATGCAC
AAGGGTCACGTGTATGCTCTCAAGATGATCAGGCAGATCCTGTCTCAGGACCAGAAGCACGTCTCTGTGCACA
CATTGTTGTCTACACCATGAGTGTGTTAGTAGCAGGACTCTTGAAAGCAGTGATCTATGCTGTAAGACCATGAGT
CACAGATTCTTTTTTTCAGTACTATTTATGATTAGCCATATTTCTAGAAACATCCTGAAAGATGGAATTATGACG
AAAAAGTGAAGATAATCTACATTCCGGGGGCACAAATGAGCACTTGGATCAGTGTGTTTATGAACCTAAGATACAGC
CGGAGTAGTTATGGTCAGTCATGGAGAATAACTTGAAAACCTTGTCCTCAAAGAGGACGGTGATTTCTGTTTCTGATA
AAATAAAGTTTAAAATAGAAGAGGAAGATGATGATGGAATTCCTCTGATAGTTTGAAAGAATGGACTTTAAAA
GCGAGCAGGAGGACATGAAGCAGACAGACAGCGGTGGGGAGCGAGCGGGCCTCGGTGGGACGGGTTGCAGCTGCA
AGCCCCCGGGGAAGTACTTGTCTGCAGAGAGTGAGGATGACTATGGCGCGCTGTTCTCCAGTACAGCAGCACCC
TATACGACGTGGCCATGGAGGCCGTGACCCAGAGCCTCCTTTCCAGCCGGAACATGAGCTCCAGGAAGAAGTCTC
CAGCCTGGAAGCATTTTTTATCTCTCCCCGAGACAGCACTAAAGCAATATGCATGTACTGTGTGAAGGAGTTCA
GCAGAGGCAAAAACGAGAAAGACTTGAGTACCAGTTGTCTCATGAGGCACGTGAGGCGCGCACACCCGACCGTGC
TCATTTCAGGAAAATGGCAGTGTGTCTGCCGTGTCTCGTTCCCTCTCCCTCACTCCTGCTTCCACCACAGCCTG
CGGACGCGGGTGACCTCAGCACCATCCTCTCACCATCAAACCTTGTCAGAAAGTGCGCTCTAAGATCCCGTCCC
CCGATCGAATAACAGAGGAGTCTGTGTCTGTAGTTTCTTCTGAAGAAATCTCCTCTGACATGTCCGTTTCGGAGA
AGTGCGGCAGAGAAGAAGCCCTGGTGGGGTCTGTCCCCACCTCCCTGCTCTCCATTACGATGAACCTGCAGAGA
ACTTAGCGGAGAAGAGCCTTCCACTTCCAAAGAGCACCTCTGGGTCCAGGAGAAGGTCCGCTGTCTGGAAGCACT
TCTACCTGTGCGCACTGGACAACCTCAAAGCTGTCTGCATTCACTGCATGAACGAGTTAGCCGGGGGAAGAATG
GGAAGGACCTGGGCACGAGCTGCCTCATCAGGCACATGTGGAGGGCACACCGCGCCATCGTGTGTCAGGAGAACG
GGGGCACGGGCATCCCGCCACTGTACTCCACCCCTCCCACTCTGCTGCCTTCCCTTGCTGCCGCCGGAGGGGGAGC
TCAGCTCTGTGCTCTGCTCCAGTAAAGCCGGTCAGAGAGTCCCTTCCGGCCTCCTCCTCCCTGACAGGCTGA
CTGAGGACTTGACAGTCTCACTTGAACCCCTGGAGATGGGCTGATGGAAGACGTGGCGGCCTTCTCATCTTCCGATG
ACATAGGGGAGGCCTCGGCGTCTCTCCTGAGAAGCAGCAGGCTGATGGGCTGAGTCCTAGATTGTTTGAATCTG
GCGCCATCTTCCAGCAGATAAAAAGGTTCATGAAAAGACTGAAGTCGGAGGTCTGGCATCACTTCTCCCTGGCCCC
CCATGGACAGCCTCAAGGCCGAGTGTCCGTACTGCGGCTGTGCCATCAGCCGGGGGAAGAAGGGTGTGTGGGCA
CCAGCTGCCTGATGAGACATCTCTACCGGCGCCATCCAGAAGTTGTGCGGAGCCAGAAGGGCTTCTGGGTGCAA
GTCTGGCAAACTCTCCGTATGCCACTTTGGCCTCTGCAGAAAGTTCTCTTCCAAATTGACTGACTTGCCAACAG
TGGTCACAAAAACAATCAAGTTATGTTTCTGTTAATAGCAAAAAGACCTCGAAGCTGTGGAATCATTTTTCTA
TTTGCTCCGCAGACTCCACAAAAGTCGTGTGCTTGCACTGTGGCCGGACCATCAGCCGGGGGAAGAAGCCGACTA
ACTTGGGTACAGCTGTCTTCTGAGACATTTACAGCGGTTCCATAGCAACGTGCTGAAAACCTGAGGTCTCGGAGA
CGGCTCGGCCCTCCTCTCCGGACACCCGGGTGCCGCGGGGCACAGAATTATCAGGCGCTTCTCTTTTGATGACA
CCAATGAGAAGTTTTACGATTCTCACCAGTTGCCAAAAAATCACAAGTCTCATAGCTGAAATGATTGCACTTG
ACCTCCAGCCATATTCTTTGTAGACAACGTTGGCTTTAACAGGCTGCTTGAATACTTGAAACCTCAGTACTCCC
TCCCGCCCCCTTCTACTTCTCCAGGACAGCTATCCCAGGTATGTATGATAATGTGAAGCAGATAATTATGTCCC
ACCTTAAGGAAGCTGAGAGTGGTGTGATCCACTTCACGTCTGGAATATGGATGAGTAACCAGACCCGTGAGTACC
TGACCTTCACGGCCCACTGGGTTTCTTCGAGTCCGACGCCGCGCGCTGTGACGACCACCACTGCTCGGCGC
TGTTGGACGTGTGCGAGGTGGACTGCGACTACAGTGGAACAGCATTGAGAAGCAGCTGGAGTGTGGTGGGAAG
CGTGGGTGACCTCCACCGGCCTTCAGGTGGGCATCACCGTCACCGACAACGCCAGCATCGGGAAGACGCTGAACG
AGGGGGAGCACTCGAGCGTGCACTGCTTACGCCATACGGTGAACCTGATCGTCAGCGAGGCCATTAAGAGCCAGC
GGATGGTGCAGAACCTGCTGAGCCTCGCCCGGAAGATCTGCGAGCGGGTGACCCGGTGCCTCAAGGCGAAGGAGA
AACTGGCCGAGCTGCAGAGGGAGTACGCGCTGCCTCAGCATCACCTCATCCAGGACGTCCCGTCCAAGTGGAGCA
CTTCTTCCACATGCTCGAGCGGCTCATTGAGCAGAAAAGGGCCATTAACGAGATGTCCGTGAGTGTAATTCC
GAGAGCTGATCAGCTGCGACCACTGGGAGGTGATGCACTCCGTGTGCCGTGCGCTAAAGCCCTTCGAGGCTGCGA
GCCGGGAGATGAGCACGCAGATGTCCACCTCAGCCAGGTGATCCCATGGTACACATCCTCAACAGGAAGGTGG
AGATGCTCTTCGAGGAGACGATGGGCATCGACACCATGCTGCGCTCTCTGAAGGAGGCCATGGTGAGCCGCTGT
CTGCCACCCTCCACGACCCGCGGTACGTTCTGCCACGCTGCTGGATCCTCGCTACAAGGCCCTCCCTGTTTACGG
AGGAGGAGGCGGAGCAGTACAAACAGGATTTAATCAGGGAACCTCGAATCATGAATTCTACCTCAGAGGACGTGG

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FIGURE 6108B

CTGCCTCCACAGGTGTGATGCTGGCTCCCCGTCGAAAGACTCTGCCGCAGAGGAGAACCTGTGGTCACTTGTGG
CCAAGGTGAAGAAGAAAGACCCAAGAGAAAAGCTGCCTGAAGCCATGGTGCTTGCGTATCTGGAGGAGGAGGTGC
TTGAACACAGCTGTGACCCGCTCACCTACTGGAACCTGAAGAAGGCGTCCTGGCCGGGGCTGTCCGCGCTGGCCG
TCAGATTTTTGGGCTGCCCCCAAGCATCGTCCCTTCAGAAAAGCTGTTCAACACACCCCACTGAGAACGGTAGCC
TTGGCCAATCCAGGCTCATGATGGAACATTTGAAAACTTATCTTTTTGAAAGTGAATCTTCCCTTAATATACT
TTCAGTATTGAAACTCACGACGGCACCACTAGGCCAGAGGCGTGGCTGCCCCAGCGTTAGCAGCCTGTACCAGGT
CTATGACCCGCTCTGCCCACGGCTGTGTACGACATCAGACCAGGCACTCTCAGGGCCGCTCTCCAGCTCACCACA
GTGTCTCCACGTGCCTTACCCCTTCTCCTTCAGGCCAAGTTTCGCGGGGTGTTTTATTAAGACGTCCACTAGAAA
TAGCTTGICCTGTCAACTATGAAATATGGTGACTAGATTTTAATTCATAACCGTAAAGTTTTTAAAGTTTTGGG
TTAGTAATTTGTTTTACTAGAATGACAAAGAAGATGTAAACCATTTTATTCTGTAGGCTTTTTACTCAATTATGT
ACAAACCACAAATCAGGTACTGTATTTTAGTGAAGCATTGCTTTAATTGCAACAGAATAGCTTTTGTGGCTATCA
AATGAAATCTGTAAATAGGAGGTGGAGGGCAAGCCATCCTGACTGAGCAGTTTTTAACCGCAGGTTCTAAAGTGT
CCCGCGGAGTACAGATAATATTCTGGAAGGTAACCTGTTTACTACGACAGAGACGTGGCATTGTGAAACGAAACTT
AGATGTTTCATGGAGCTTATTTTGAGAACTTTCCCATTTTCAGGTTTCTGCATTTCAGGCTTTACATGGTCAGTTAA
CTCAGAGATACCCAGCTGTTTATCATCAGCTCCCTCTGAAATGTGATCCCTTTGTAACTGTGCTCATCACTTCGC
CAGTGCGTTCAATGACACGCTGATGGCAGGTGGTCCCTGCTGAAACCCCCACGCCTCCGCTTCAGCATCTCCACG
CTCTGAAGCTGTCTTTCAAAATGTGTGCACTGACCCCCCTTGTTTGATCAAATTTGTGTAAATTTTTTTAGAAGA
GATGGCTTATTAACAGGGAAGAAGCTTGTTATATTCCAGTTGTAAGAATAGCCTTAGTGTTTAGATTTTTTTATG
ATAGGGAAGATCGGGCCATCACTGGGATATTTTCAAATCCCAAGGACATCAGAGTGAAGTGTCAGTTGTCAGATG
ATTTTAAAGTTATGTCTTCAGAGAAAAAAGATTCATTTTCTCATTTTAAACCAATTAAATATTCTGAGTGAGA
CTAATCACTCATTTGCCTACGACCTTTTAGAAAAGTTGTTTTGTTGAAATACTGTACGTACGCTTAATCTAAATT
TGCATTGACTATGTTTTAGTGTATTTATAAATGGTGAACTCAGTTTCTGAAATTAACTTCTTATTTGCAATTTT

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FIGURE 6109

CCATGTTGGCCAGGCTGGTCTGAGAGAGAACTCCTGACCTCGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGG
GATGACAGGCGTGCGCCACTGCACCCGGCCCGTGAAGGTCTTTTCTGAAGGGAGCTACCTTTGAGAAGTGCCTGT
TGGGACAGAACTCCCTGCTCTGGTCTGACCTCTGCACGCTAGGGTGGTCTGACCTGTGCGGGAGGGGGCCAA
GGACACAGCACTGGGCTGGGGCAGGGCTCTGCGCTGGTGTGCCTGCCATCCCAGTTCTGCCATTCCCCAGCGC
ACCCCCGCACCCGCCCTCCAGCTGATGCCCTGCTCCCTCTCTCTGCAGAACGGGCTCATGTGCGGGCTGATGCAG
ATGCTGCTGCTGAAGGTGTCTGCACACATCACCGAGCAGCTGGGCATGGCCCCAGGTGGCGAGTTCAGGGAGGCC
TTCAAGGAGGTGGGCACAGGGTGAGGTAGGGGGTGGCCACAGGGATGGTGGCTCACAGGGGTGGTCCGGGGTTCCC
AGTGTCTCCCCAACCCAGCCTCTGCTCCAGGCCAGCAAGGTGCCCTTTCTGCAAGTTCCACCTGGGTGACCGACC
CATCCCCGTACCTTCAAGAGGGCCATCGCAGCGCTCTCCTTCTGGCAGAAGGTCAGGCTGGCTTGGGGCCTGTG
CTTCTGTGACACCCCATCAGGTAGGGCTGCCCCGGGACCTGGCCGGCCTGCAGGGTGGTCTGTGGGAGGCTC
CAGGCCCTCTGTGAGGTCCAAGCGCAGCCAATCCTCACTCAAGGCCTTCCCTGCCCTTTTCTTCCGCCACAAA
TCCCAAACAAACGTGCTGTGGTCCCTGCCCGGTGCCACAGTGCCAGCCCCACCCCCCAGCCCGTTGCCCATCC
CTGCGGGGCTGCAGCCATCCCTCTCCACAGCAAGGATGACGTGGAACGCTGCAAGCAGAAGGACCTACTGGAGCA
GATGATGGCCGAGATGATTGGCGAGTTCCAGACCTGCACCGCACCATCGTCTCGGAGCGGACGTCTACCTAAC
CTACATGCTGCGCCAGGCCGCGCGGCGCTCGAGCTGCCTCGGGCCTCTGACGGTGACGGCGCCCGCAGGCGTG
GGACCCCTGTGAGGCTGAGGCCGAGCAGGTACTGACCCCTTGTCTTCCCCACAGCCGAGCCAGGAAGTGCG
TCCCCTCCGTGGTCTGTGGCGCTCGTGGGCATGGGCCACGTGCCTGGCATCGAGAAGAACTGGAGCACCGACCTCA
ACATCCAGGAGATCATGACCGTGCCCCCGCCGTCCGTCTCCGGCAGAGTGCTCTCGGTGGCCGTGAAGGCCGCT
TCTTCGGCCTGCTGGGCTACAGCCTGTACTGGATGGGCCGCGCCACCGCGAGCCTGGTCTGTGCTGCCCCCG
CGCAGTACTGCCTGCAGAGGGTGACCGAGGCCCGGCACAAGTAGGAGACTGCTCCCCGCCCCGCTCGGGCCCCCTGA
GGAGCCAGTGCCCCCGCGGCACTTCTGGGTGCCAGGTGCATCCTAGCCCCCGCGAGGCCCTGCCACCCCCATG
GGGGTCTGGGCCCGGCTCGCTGCCCTCCTGGGCCAGTCACCCCTCCCCCAGCCACCCAAATAAAGGATTATT
TAACTGTCTGAAAAAAAAAAAAAAAAA

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FIGURE 6110

MWLTGVVGRSQCSPTPSLCSRPARCLSASSTWVTDPSPSPSRGPSQSRPSGRRSGWLGACASCQTPSGRAAPGTL
AGLQGGGLWEAPGPPVQVQAQPILTQGLPCFPLPPQIPNKRAVVPARCPQCQPHPPSPLPIPAGLQPSLSTARMW
NAASRRTYWSR

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FIGURE 6111

GCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGACCGGCGAGCGCTGGGAGCTGCAGCTCAA
GGGCGCGGGCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCTACGGTCAAGCATCCGGGAGTTTCT
ATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCGGGCGCTGCGTCACGTCCGAGTCCACGGT
GGTGCAGCGAGTGTCTATGATGGTAATCCCAAATATGAACAATGCACGGTTGTGTTGCGTGTAGCTTCCACTTT
CATAAGGTTTGGATCCTTTGAGATTTTAAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAGCGTGGGGAG
GAACGACATTGAGTGCAGCTGCTCGACTATGTATCAGCTCCTTTTACCCCGAGATCCAGGCTGCTCATGCCAG
CGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGGCGGCACGGCGCGGATGGTGGCCGAGTGGCA
GTGTGTGGGCTTCTGCCACGGCGTGTCTAACACCGACAACATGAGCATCCTGGGGCTCACCATCGACTACGGGCC
CTTTGGCTTCTGGACAGGTACGACCCCGACCACGTGTGCAATGCCTCCGACAACACCGGCCGCTACGCGTACAG
CAAGCAGCCCCAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAAGTGCCTTGGAGCT
GGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCCGAGTTCCAAAGGCACTACCTGCAGAAGATGCGCAGGAAGCT
GGGCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCATCTGACCGG
TGCCGACTTCACAAACACCTTCTACTTGCTGAGCTCCTTCCAGTGGAGCTAGAGTCGCCAGGCCTGGCGGAATT
CCTGGCCAGGCTGATGGAGCAGTGTGCTCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGATGGATCCCCG
GCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGACGTGTTGCGGCTTATGGGCACCCGGGCAGGCAT
CGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCAGAGCAGGAA
CCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGCTGGGGACGC
TGCCGCTTGGCAGGCTGAGCACGTGCGCGTATGCACGCCAACAACCCGAAGTACGTGCTGAGGAACATACCGC
GCAGAAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGTGAACTACTGGAGACCCC
TTACCACTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAGGCAGCGCTC
CTACAGCAGTAAGCCCCGCTCTGGGCAGCAGAACTGTGCGTGACATGATCTTTCGTAACGGCCTCGGCACGCTCC
ACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCTATACACTGG
GGGATTCTGCCCTGGCCCATGCACACCCGTCTTTCCATGATGGCAGAGACATCCAGTCAGGACCTGACCCGTCTC
TGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGCTGGACCCAGGCTCCTAAATAAACCCAGCAACTCC
CTCG

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FIGURE 6112

MYLGEVCTATGERWELQLKGAGPTFFSRQADGRKVLRSSIREFLCSEAMFHLGVPTTRAGACVTSESTVVVDVY
DGNPKYEQCTIVLRVASTFIRFGSFEIFKSAD EHTGRAGPSVGRNDIRVQLLDYVISSFYPEIQAAHASDSVQRN
AAFFREVTRRTARMVAEWQCVGFCHGVLNTDNMSILGLTIDYGPFGLDRYDPDHVCNASDNTGRYAYSKQPEVC
RWNLRKLAEALQPELPLELGEAILAEFFDAEFQRHYLQKMRRLGLVQVELEEDGALVSKLLETMHLTGADFTNT
FYLLSSFPVELESPGLAEFLARLMEQCASLEELRLAFRPQMDPRQLSMMLMLAQSNPQLFALMGTRAGIARELER
VEQQSRLEQLSAAELQSRNQGHWADWLQAYRARLDKDLGAGDAAAWQAEHVRVMHANNPKYVLRNYIAQNAIEA
AERGDFSEVRRVLKLETPYHCEAGAATDAEATEADGADGRQRSYSSKPPLWAAELCVT

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FIGURE 6113

GATTCTCCCAGCAACAAGCTGCTGTACGCCAAGGAGATCTCCACCTACAAGAAGATGGTGGAGGATTACTACAAG-
GGGATCCGGCAGATGGTGCAGGTCAGCGACCAGGACATGAACACACACCTGGCAGAGATTTCCCGGCGCCCCCTC
CCTGCGGCTGCACCCACGGCCGTGCCCACAGCGCCCCCTCCCTGCGGCTGCACCCTCGGCCGTGCCACAGCGCC
CCCTCCCTGCGGCTCCATCCACGGCCGTGTCCACAGCGCCCCCTCCCTGCGGCTGCACCCACGGCCGTGCCACA
GCGCCCCCTCCCTGCGGCTCCACCCACAGCCCTGCTCACAGCACCCTGCTCCCTGTGGGTCCATCCACAGCCGTGCG
TCACACAGGGAGACACTGAGATGGTTGGATGTGCACAACCTCTGCCTGCGCGCACACGGACTCCTTGAACACCCCTC
GTGGCACTCCACCAGCTCTACCAATACACGCAGAAGTACTATGACGAGATCATCAATGCCTTGGAGGAGGATCCT
GCCGCCCAGAAGATGCAGCTGGCCTTCGCTGTCAGCAGATTGCCGCTGCACTGGAGAACAAGTCAGGGTGGGCT
TCCTAG

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FIGURE 6114

GCCCTGCTCTAGCGGGCCGCTAGCGGACATGGCGGGCTCCCGGCTCCCGCGGCAGCTCTTCCTCCAGGGCGTGG
CGGCCGTCTTCAIGTTTTCGCTTCCCTCTACACGCAAATCCCAGGCCTGTATGGCCCCGAGGGCATCCTAC
CTGCAAGGAGGACGCTGCGGCCTCAGGGCAAGGGGCGCTGGCAGCAGCTGTGGGAGACCCCGACGCTGCTGTGGG
AAGCGCCGAGACTGGGGCTGGACACGGCCAGGGCCTGGAGCTGCTGAGCCTGCTGGGTGCACTAGTGGCCCTGG
GAGCCCTGCTGCTGAGCCCACTGCGCCACCCTGTCTACTTCTGCTGCTTTGGGCCGCTACCTGTCAGCCTGCC
AGGTGGGCCAGGTGTTCCCTTTATTTCCAGTGGGACTCCCTGCTGCTAGAGACTGGCTTCCTGGCCGTGCTGGTGG
CCCCGCTGAGGCCAGCCTCCCAACGCAAGGAGGCCCCCAGGGCAGGCAGGCAGGGGCCCTGCCCCACGAAGACC
TCCCTTCTGGCTGGTGGGATGGCTGCTGTTCCGCTCATGTTTCGCTCAGGCGTGGTCAAGCTGACCAGCCGCT
GCCCTGCGTGGTGGGGCTCACTGCCCTCACCTACCCTACGAGACCCAGTGCTGCCACGCCCGCCGCTGGT
TCGCACACCACCTGCCGGTCTGGCTGCACAAGCTCAGCGTGGTGGCCACCTTCCTAATTGAGATCGCTGTGCCGC
CCCTGTTCTTCGCCCCATTTCGACGCCCTGCGCTTGGCTGCTTCTACTCGCAGGTGCTGCTGCAGGTCTTGATTA
TCATCACCGGCAACTACAACCTCTTCAACCTGATGACGCTGGTGGCTTACCCTGCGCTGCTGGACGACCAGCACC
TGGCTGCTGAGCCTGGCCACGGCAGCCGCAAGAAGACGGCCACCTCCTGGCCCAAGGCCCTGCTGGCCACCCTGT
CGCTGCTGCTGGAAGTACCGCTCTACGGGCTTCTGGCCTATGGCACTGTGCACTACTTTGGCCTGGAGGTTGACT
GGCAGCAGCGCACCATCCACTCCAGAACCCTTTACCTTCCACCAGTTTTCTCAGTGGCTGAAGACACTGACGC
TGCCCACTGTGTGGCTGGGTGTGGCCTCCCTGGTCTGGGAGCTGCTGAGTGCCCTGTGGAGGTGGACCCAGGTGC
GGGGCTGGCTACGGAAGCTCAGTCTGTAGTCCAACCTGTCCCTGTGGGCACTGCGACCGTGGCCTTGTTCCCTGA
TTAGCCTGGTGCCGTACTCTACGTGGAGCCCGGGACCCACGGGCGCCTCTGGACCGGGGCCACCGCCTGTTTG
GTGCCGTGGAGCACCTACAGTGGCCAACCTCTACGGCCTCTTCCGCCGATGACTGGGCTTGGTGGACGGCCTG
AGGTGGTGTGGAGGGCAGTTACGACGGCCACCCTGGACGGAGATCGAGTTTCATGTACAAGCCTGGGAACCTGA
GCCGGCCGCCCCCGTTGTGGTGGCCACCAGCCACGCCTGGACTGGCAGATGTGGTTTGACGCCCTGGGCCCCAC
ACACGCACAGCCCGTGGTTCACAAGCCTGGTCTTGCCTGCTGTCAGGGCAAGGAGCCAGTGATCCGCCCTGTCC
AGAGCCAAAGTGGCCAGGTATCCCTTCCACAAGCAGCCGCCACCTACGTCCGAGCCAGCGCTACAAGTACTGGT
TCTCCAGCCTGGGGAGCAGGGCCAGTGGTGGCGGCGCCAGTGGGTGGAGGAGTTCTTCCCATCCGTGTCCCTGG
GGGACCCACGCTGGAGACGCTGCTCAGGCAGTTTGGACTACAGGAGAAAAGCCACCTCGCACCCGCGAGGCCA
ACAGCACCCCTGGCCAGGCCCTCCACTGGACTCGCTCTCAGCTGTCTCCCTGGAGGCCCCCGCCCTGCTCTGGG
GGCTCCTCATGGCCGTGGGGGCTGTGAGATTGTGCAAGCCCTGCTAGCACCCCTGTTCTCTCCGGTCTCCCGC
TGGCACCACTCAGCGGGGAGAAAGCGCAGGCCAGCCTCCAGAAAGACTCCGGAGCTGCCTCCGAACAGGCCACCG
CAGCCCCCAACCCCTGCTCCAGTAGTTTCGAGGACCACCCGGCGAAAGAGTAGCTGTGTTCTCCAGCTGCACGT
CCTGAGAGGGCCAGGTGCGCGGAGTGCTCTGGCCTCCGGCAGGACAGGACCCAGCCACTGTGCCTTAGCTGACC
CTGCAGGGCCAGGCACAGGTTGGGGGCTGCCCTGGGGTTTGACAGGGTGTGCTGATTGAGGGCTCCAGGCCCCAC
CCCCACGCCAGCCATGCCCTCCCCAGGACTCCCACTATTGCCTCTGTGATTGGCCCAGGAGGAAAACAGACCA
AGCTCAAGACCCCTTCCCTGCCCTGGGCTGTGGGGTCTGAGTCTAGAGCCCCCAACCTAGGCCCCGTGCCAGA
GGGGAAGAGGCTGACTCCAGGGGAAGAGGGGAAGCACTGTCTTCCACGTCTCTTACACCAGCCCATCTT
GCCCTTTAGATCTGGGCACCAATAAAGCGTCTTTTGTGCTTG

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FIGURE 6115

MAGSRLPRQLFLQGVAAVFMFAFASLYTQIPGLYGPEGILPARRTLRPQGKGRWQQLWETPTLLWEAPRLGLDTA
QGLELLSLLGALVALGALLSPLRHPVIYLLLWAAAYLSACQVGQVFLYFQWDSLLLETGFLAVLVAPLRPASHRK
EAPQGRQAGALPHEDLPFWLVRWLLFRLMFASGVVKLTSRCPAWWGLTALTYHYETQCLPTPAAWFAHHLPVWLH
KLSVVATFLIEIAVPPPLFFAPIRRLRLAAFYSQVLLQVLIITGNYNFFNLMTLVLTALLDDQHAAEPGHGSR
KKTATSWPKALLATLSLLELAVYGLLAYGTVHYFGLEVDWQORTIHSRTTTFHQFSQWLKTLTLPVWLGVAS
LVWELLSALWRWTQVRGWLRLKLSAVVQLSLVGTATVALFLISLVPYSYVEPGTHGRLWTGAHRLFCAVEHLQLAN
SYGLFRMTGLGGRPEVVLEGSYDGHHWTEIEFMYKPGNLSRPPPVVPHQPRLDWQMWFAALGPHTHSPWFTSL
VLRLQKGKEPVIRLVQSQVARYPFHKQPPTYVRAQRYKYWFSQPGEQGQWRRQWVEEFFPSVSLGDPTLETLLR
QFGLQEKSPPRTRSANSTLAQALHWTRSQLSPLEAPALLWGLLMAVGAVRFVQALLAPCSLRSSFLAPVSGEKRR
PASQKDSGAASEQATAAPNPCSSSSRTTRKK

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FIGURE 6116

AGCAAAATGGCGCCAGAACTAGTGGCGGGCTGAGGACGCCGTACCCCTCGGAAGGCAGCCCTGCGGTCCCTTTGC
CGCCCGTTCCCTCCCGGACATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGACAGCCCATCCGCGACCTCAC
CAAGAACTGGGAGGTGGACGTGGCGGCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCTTT
TGACGAAGGCAAGACCACAATGAACCTTCATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAA
GAAGGTGGAATACCTCTACTCACTCGTCTACCAGGCCCTTGATTTCATCTCTGGAAAGAGGCGGGCCAAGCAGCT
CTCTTCGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGGTCCCCAGGAGGCAGAGAATGAGTTCCCT
GTCGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCAGTGTGAGTCCCTCA
TCATCCCCCTCCTGCCCATGGCCCTGGTGGCCCTGATGAAATGGAGAAGAACAACAATCCCTGTACAGCCGTC
AGGGTGAGGTCTGGCCAGCCGGAAGGATTTAGGATGAACACGTGCGTTCCCCACCCAGAGGGGCCCTTCATGT
TGGAGCCAGAGGGCATGTCCCCATGGAACCAGCGGGCGTTTCCCCATGCCAGGGACCCAGAAGGACACCGGGA
GGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGCAGGAGCCCTGTCCAGCACTCGGCTTCTCCAGGAGCCAG
GCCCCCTCTCCAGAAGGCCCGATGCCCTGGGTGGGGGCGAGGACGAGGATGCAGAGGAGGCAGTAGAGTTCCCTG
AGGCCTCGGCCCCCAAGGCCGCTCTGGAGCCCAAGGAGTCCAGGAGCCCGCAGCAGAGTGCTGCCCTGCCAGGA
GGTACATGCTGCGGGAGCGGGAGGGGGCCCCAGAGCCTGCATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGA
GCCTGGACCCCTTTGACTCCTTGAGTCTAAGCCCTCAAGAAAGGTAGGCCCTTACTCTGTGCCCCCTGTGTGG
AGGAGGCTCTGGGACAGAAGCGCAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACCAAGTGGTACCTGGCTG
CCTATGCAGACCATGCCGACAGCAGCGCGCTTCGGCGAAAGGGTCCGTCTTTGCAGACATGGAGGTCTGTACT
GGACACACGTGAAGGAGCAGTTGGAACTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGC
CTGCAGAGGAGGACCACCTGGAGGATTCCCTGGAAGACCTGGGGGCGAGCAGATGACTTTCTAGAGCCTGAGGAGT
ACATGGAGCCCGAGGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGCAGTGCCGATGTCCCTGAGCTACGAGG
AGCTGGTTCTGAAGGAATGTGGAGCTTTTCATCGCCACCTCCCAGAAGTTTGTCCAGGAGACAGAGCTGAGCCAGC
GCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTTTGACATCCACA
CCTATGGGGACCAGTGGTCTCACGGTTCCCCAGCTCAATGAGTGGTGTCCCTTTGCGGAGCTGGTGGCTGGCC
AGCCGGCCTTCGAGGTGTGTGCTTCCATGCTGGCCTCCCTGCAGCTGGCCAATGACTACACAGTGGAGATAACCC
AGCAGCCCGGGCTGGAGATGGCCGTGGACACCATGTCCCTGAGACTGCTCAGCACCAGCGAGCGCACAAAGCGCT
TCCAGACCTACGCTGCCCCCTCCATGGCCAGCCCTGAGTGGGGAGCACCCGAGGCAGGGGTGGGGGAATGTGTAC
TGAGGAGCCGTGTGTCTGCTCCTGGCTGGCCCGGCCCTAATAAAGCAGTGTGCCATCTCATCTTCCCCCTAAAAA
CCCTTTTATGTACACCTGCGCAGAGAAGAGGGCTGCCTGGCCTCCCTGGGCGCTGGTACAGATCACACACACAC
ACAGATTAAACGCAGCCCGTTTAATGATGGGGCCAGACTGCAGTGGCTCAAGACAGGACACTGCGGAAAGCCGC
CATGTGCCGCGCACACTGTCTGAGATCTGCTCAGCCGATCTGCTCCGGCCGTAGTAATCCGTGAAGAGGCCGTC
AGGGTTGAGCAGGTAGATGGCAATGGAGTGGTCCACGATGTAGTCTTGGTCTCTATCCTTGGGGCCTGCATTGTA
GTACACGCGGTAACTGTGACTAGCCTGGGCAACCTGTTTGGTGGAGCCGGTCAGACCCAACAGTCTTGGGTGGAA
GTCCTGGACGTAGCGGGCCATGGCTTCAACGTCGTCCCGCTCGGGGTCCACAGTGATGAAGACAGGCTGCACTGG
AGGCAAACAGGCTCTGCTTCCAGCTGCCGACCACCTGCACCAGCTTCTCCAGCTCGTCTGGGCAGATGTCAGG
GCAGTGAGTGAAGCCAAAGTACATCAGCACCACCTGGCCCCGGAAGTCAGCCTTGACGCGAGCCCGGCCCTCTGTG
ATCCAGCAGGTGGAAGTGCCTTGGCCACAGCTGCCTGGCGCAGGGCTTCTGTTGCTTTTGCTGCTGCAGCCT
CTCCTTCTCAGCCCTCAGGGCCAGCCAGGCCCCACCGAGTCCAGCCCCGAACAGGCCTGTGATCAGCAGCCGGGT
TCGAAGCCCAGGGCCCTGGGGCTGGCCCTGCCACCTGTCTCTGCAGGGCCCTGCCTTGACAAAAGCCAGGACCT
CAGATGCAGGGCCTGGCCTCCCAGGGTCCCAGGGAGGCCGAGGCTTGAGCTGAGAGAGCCTGTGCCAAGCTGT
GGGGCTCCGAGTCAGCAGCAGCATGGATCTGATGCTCCTGGAAACAAGCACAGGCGTCAGGAGCCAGAAGGGAAG
GCCCAGGACAGTGCCCTGGGCTGCCCTGCGACTTGAGACCAGCCACCCATCTGAAGGACCCAGCCACGTTCCAGG
CTTAACAGGCATTGTGAGCTGCTCACCTGAGCTCAGAACTCCACCTCCACCAACATCCACACCTGGGCAACCAC
ACCTGTCACTCCTGTCTCTACCTGGGATCACCAGCCTGTCAACCGACCCCTGCCCTGCACCTGCACCTCAGCAAG
GTGAACCTCTTGCTGACGGAAGCATTCCAAGTGCATGCCTTGCTGAACCTAACCAAGTTATCTATTGCAATAA
ACCCATTTCTTAAAGG

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FIGURE 6117

MALVAPDEMEKNNNPLYSRQGEVLASRKDFRMNTCVPHPRGAFMLEPEGMSMPMEPAGVSPMPGTQKDTGRTEEQP
MEVSVC RSPVPALGFSQEPGPSPEGPMPLGGGEDEDAEEAVELPEASAPKAALPKESRSPQQSAALPRRYMLRE
REGAPEPASCVKETPDWPQSLDPFDSLESKPFFKGRPYSVPPCVEEALGQKRKRKGAAKLQDFHQWYLAAYADHA
DSRRLLRRKGPSFADMEVLYWTHVKEQLETLRKLQRREVAEQWLRPAEEDHLED SLEDLGAADD FLEPEEYMEPEG
ADPREAADLDAVPMSLSYEELVRRNVELFIATSQKFVQETELSORIRDWEDTVQPLLQEQEQHVFPDIHTYGDQL
VSRFPQLNEWCPFAELVAGQPAFEVCRSMLASLQLANDYTVEITQQPGLEMAVD TMSLRLLTHQRAHKRFQTYAA
PSMAQP

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FIGURE 6118

GCTTTCCACAGCGCGGGGGAACGGGAGGCCGAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGGCGC
AGTACACCAGCGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTG
CTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAACTGGATGGTTTTCTTTGTTGA
GAAGACTGAAAACGTTGTTAGTGAACAAAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTG
TCTGACAGAACTCATTCTACCAATAATAGGCTCGTGGAAGTGGGTGATCTGGACCTCTGGCATCTCTCAAATC
GCTGACTTACCTAAGTATCCTAAGAAATCCAGTAACCAATAAGAAGCATTACAGATTGTATGTGATTATAAAGT
TCCGCAAATCAGAGTACTGGATTCCAGAAAGTAAACTAAAGAGCGTCAGGAAGCAGAGAAAATGTTCAAGGGC
AAACGGGGTGACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACCTTTTAATCCAGGTGCTGGTTTGCCAACT
GACAAAAGAAAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATGCTATAGCAAATGCITCAACTCTG
GCTGAAGTGGAGAGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAGATTGGGGCCCACT
GATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCTGAGCAGTGAGGCAGATGTATAATAAT
AGGCCGTCTTGGAACAAGTCTTGCTTTTCAAACATAGTATAATAGCCTTGTTTGTGTAGCAAAGTGGAAATCTAT
CAGCATGGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAATATAAGTTTTGAAATCTAAATGTCAATTTTC
TACAAATTATAAAAATAAACTCCACTCACTGTGCTACC

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FIGURE 6119

GTCTTAGCGGCTGCGCGGTGGCTGCTCCGTCCTTTTCGGTCCAGGCGGCGGCAGGGCTGAGCCAGCGACGCCCTCC
ATTCACTCTCCGCGCCCGTTCTCCGGCTGTCTCCCGTTCCGCTGCCCCGCCCTGCCACCATGACGGAACAGGCCA
TCTCCTTCGCCAAAGACTTCTTGCCGGAGGCATCGCCGCCGCCATCTCCAAGACGGCCGTGGCTCCGATCGAGC
GGGTCAAGCTGCTGCTGCAGGTCCAGCAGCCAGCAAGCAGATCGCCGCCGACAAGCAGTACAAGGGCATCGTGG
ACTGCATTGTCCGCATCCCCAAGGAGCAGGGCGTGTCTGTCTTCTGGAGGGGCAACCTTGCCAACGTCATTGCT
ACTTCCCCACTCAAGCCCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCTGGGGGGCGTGGACAAGC
ACACGCAGTTCTGGAGGTACTTTGCGGGCAACCTGGCCTCCGGCGGTGCGGCCGGCGGACCTCCCTCTGCTTCG
TGTACCCGCTGGATTTCGCCAGAACCCGCTGGCAGCGGACGTGGGAAAGTCAGGCACAGAGCGCGAGTTCCGAG
GCCTGGGAGACTGCCTGGTGAAGATCACCAAGTCCGACGGCATCCGGGGCCTGTACCAGGGCTTCAGTGTCTCCG
TGCAGGGCATCATCATCTACCGGGCGGCCTACTTCGGCGTGTACGATACGGCCAAGGGCATGCTCCCCGACCCCA
AGAACACGCACATCGTGGTGAGCTGGATGATCGCGCAGACCGTGACGGCCGTGGCCGGCGTGGTGTCTACCCCT
TCGACACGGTGC GGCGGCGCATGATGATGCAGTCCGGGCGCAAAGGAGCTGACATCATGTACACGGGCACCGTCG
ACTGTTGGAGGAAGATCTTCAGAGATGAGGGGGGCAAGGCCCTTCTTCAAGGGTGCGTGGTCCAACGTCCTGCGGG
GCATGGGGGGCGCCTTCGTGCTGGTCTGTACGACGAGCTCAAGAAGGTGATCTAAGGGCCGCGGCCTCCTCCAC
ACACACACACACACCAGGGGAACCAAGAGAACCACGTAGAATCCTCAACCGTGCGGACCATCAACCTTCGAGAAA
TTCCAGTTGTCTTTTCCCAGCCGCATCCTGCCTGTAGATGGCCGGGGAAGGCTCTAGAAAAGGGGCGCATTGCG
ATCCAACCATCGGCAGCCGATTCCGTGTCTTGATCACGGGTGGGAGGGAACCGTGGCGTCCCTGCGTGGGGCCC
ATGGGTGAGACACTCCAGTACTGAGACCTAGAGTCCAGATGCTTGTAGGAGCCAAGTCGTGTTCTAAGTATTTAT
TTAAACAAAAGAATCACGTTTTCCCATTTGTACTTCAGCGCTAGCCCTGTTTTGCACAGCCGAGTACTGGCGA
GTATGTTCTATGTTGGGCCTCCTGCTGCAAAACAATAAACAGAGGACGCAGAGGTC

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FIGURE 6120

MTEQAISFAKDFLAGGIAAAISKTA VAPIERVKLLLVQHASKQIAADKQYKGIVDCIVRIPKEQGVLSFWRGNL
ANVIRYFFTQALNFAFKDKYKQIFLGGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVKGSGT
EREFRLGDCLVKITKSDGIRGLYQGFSVSVQGIIIIYRAAYFGVYDTAKGMLPDPKNTHIVVSWMIAQTVTAVAG
VVSYPFDIVRRRMMMQSGRKGADIMYTGTVDCWRKIFRDEGGKAFFKGAWSNVLRGMGGAFLVLVLYDELKKVI

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FIGURE 6121

ATGGTTCTCTTCGCCGCCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCTGGACGTGGCG
GCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAGCTG
CTGAAAGTGGAGACGAGGGGAGGAAAAGCTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACGGTC
AGCCCCGACGTACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCAGAC
GCCGTGAGAGAAGGAAGGAACCACTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTACGGCCATCTAC
AGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTGCTG
ACCGCCTTTGACCTGTCTAGTGTCCCACTTATGTGTGACCTTGGTGGTGGGGCTGGAGCTCTGGCTAAGGAATGC
ATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCAAAGCAGCACTTC
TCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGACCTGCTCAATCCATAAGACGATTAATGAGTGCTAAT
GATGGCAAGCGCTCCAGAGGCTCCGGAAGCCACGGCTGGATTGGAGACAAGATGGGATCCTCAGAGGACCAGGCC
TATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCCAGGTGAAGAGATGCAGAGGGTCCAAGAGGATT
TCACAGAGTTCACAGAAACCAGCTCCTCAAGAGACATCAAGTCACCCAAGAATAGACAAGCAGGATGATGCACGC
AGATCTTCCAGATGCTTCCAGATCTTCCAGATGCTCCCAGAAGAGCTAGAGCAGAGGCAATGA

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FIGURE 6122

TCCAAGGTTCTCTTCGCCGCCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCTGGACGTG
GCGGCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAG
CTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACG
GTCAGCCCCGACGTACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCA
GACGCCGTGAGAGAAGGAAGGAACCACTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATC
TACAGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTG
CTGACCGCCTTTGACCTGTCTAGTGTTCACCTTATGTGTGACCTTGGTGGGACATGGATAAAGCTGGAAACCATC
ATTCTCAGCAAACCTATCGCAAGGACAGAAAACCAACACCGCGTGTCTCACTCATAGGTGGGGCTGGAGCTCTG
GCTAAGGAATGCATGTCTCTGTACCCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCA
AAGCAGCACTTCTCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGGGATTTCTTCAAAGACCCCTCTTCCG
GAAGCTGATCTGTACATCCTGGCCAGGGTCCTCCATGACTGGGCAGACGGAAGTGCTCACACCTGCTGGAGAGG
ATCTACCACACTTGCAAGCCAGGTGGTGGCATTCTGGTAATTGAAAGCCTCCTGGATGAAGACAGGCGAGGTCTT
CTGCTCACGCAGCTCTACTCTCTGAACATGCTTGTGCAGACGGAAGGGCAGGAGAGGACCCCCACCCACTACCAC
ATGCTCCTCTCTTCTGCTGGCTTCAGAGACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCC
AGGAAATAACTGTTTCTTGTGACCTGGAACCTAACGTCAAAGCACACAAGACATAATAATAAAGACATGTACCTCC
A

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FIGURE 6123A

ATGCCCAAGCGCGCGCACTGGGGGGCCCTCTCCGTGGTGCTGATCCTGCTTTGGGGCCATCCGCGAGTGGCGCTG
GCCTGCCCGCATCCTTGTGCCTGCTACGTCCCCAGCGAGGTCCACTGCACGTTCCGATCCCTGGCTTCCGTGCCC
GCTGGCATTGCTAAACACGTGGAAAGAATCAATTTGGGGTTAATAGCATACAGGCCCTGTGAGAAACCTCATT
GCAGGACTGACCAAGTTGGAGCTACTTATGATTCACGGCAATGAGATCCCAAGCATCCCCGATGGAGCTTTAAGA
GACCTCAGCTCTCTTCAGGTTTTCAAGTTCAGCTACAACAAGCTGAGAGTGATCACAGGACAGACCTCCAGGGT
CTCTCTAACTTAATGAGGCTGCACATTGACCACAACAAGATCGAGTTTATCCACCTCAAGCTTTCAACGGCTTA
ACGTCTCTGAGGCTACTCCATTGGAAGGAAATCTCTCCACCAGCTGCACCCAGCACCTTCTCCACGTTTACA
TTTTTGGATTATTTGAGACTCTCCACCATAAGGCACCTCTACTTAGCAGAGAACATGGTTAGAACTCTTCTGCC
AGCATGCTTCGGAACATGCCGCTTCTGGAGAATCTTTACTTGCAGGGAAATCCGTGGACCTGCCATTGTGAGATG
AGATGGTTTTTGAATGGGATGCAAAATCCAGAGGAATTCTGAAGTGTA AAAAGGACAAAGCTTATGAAGGCGGT
CAGTTGTGTCAATGTGCTTCAGTCCAAAGAAGTTGTACAAACATGAGATACACAAGCTGAAGGACATGACTTGT
CTGAAGCCTTCAATAGAGTCCCTCTGAGACAGAACAGGAGCAGGAGTATTGAGGAGGAGCAAGAACAGGAAGAG
GATGGTGGCAGCCAGCTCATCTGGAGAAATCCAAGTCCCCAGTGGAGCATCTCTTTGAATATGACCGACGAG
CACGGGAACATGGTGAACCTTGGTCTGTGACATCAAGAAACCAATGGATGTGTACAAGATTCACTTGAACCAAACG
GATCCTCCAGATATTGACATAAATGCAACAGTTGCCTTGGACTTTGAGTGTCCAATGACCCGAGAAACTATGAA
AAGCTATGGAAATTGATAGCATACTACAGTGAAGTTCCCGTGAAGCTACACAGAGAGCTCATGCTCAGCAAAGAC
CCCAGAGTCAGCTACCAAGTACAGCAGGATGCTGATGAGGAAGCTCTTACTACACAGGTGTGAGAGCCCAGATT
CTTGAGAACCAAGATGGGTCTGAGCCATCCATAGATATCCAGCTGAACCGACGTCAGAGTACGGCCAAGAAG
GTGCTACTTTCTACTACACCCAGTATTCTCAAACAATATCCACCAAAGATACAAGGCAGGCTCGGGGCAGAAGC
TGGGTAATGATTGAGCCTAGTGGAGCTGTGCAAAGAGATCAGACTGTCTGGAAGGGGGTCCATGCCAGTTGAGC
TGCAACGTGAAAGCTTCTGAGAGTCCATCTATCTTCTGGGTGCTTCCAGATGGCTCCATCCTGAAAGCGCCCATG
GATGACCCAGACAGCAAGTTCTCCATTCTCAGCAGTGGCTGGCTGAGGATCAAGTCCATGGAGCCATCTGACTCA
GGCTTGTAACAGTGCATTGCTCAAGTGAGGGATGAAATGGACCGCATGGTATATAGGGTACTTGTGCAGTCTCCC
TCCACTCAGCCAGCCGAGAAAGACACAGTGACAATTGGCAAGAACCAGGGGAGTCGGTGACATTGCCTTGCAAT
GCTTTAGCAATACCCGAAGCCACCTTAGCTGGATTCTTCCAAACAGAAGGATAATTAATGATTGGCTAACACA
TCACATGTATACATGTTGCCAAATGGAACCTTTTCCATCCCAAAGGTCCAAGTCAGTGACAGTGGTTACTACAGA
TGTGTGGCTGTCAACCAGCAAGGGGCAGACCATTTTACGGTGGGAATCACAGTGACCAAGAAAGGGTCTGGCTTG
CCATCCAAAGAGGCAGACGCCAGGTGCAAAGGCTCTTCCAGAGTCAGAGAAGACATCGTGGAGGATGAAGGG
GGCTCGGGCATGGGAGATGAAGAGAACACTTCAAGGAGACTTCTGCATCCAAAGGACCAAGAGGTGTTCTCATAA
ACAAAGGATGATGCCATCAATGGAGACAAGAAAGCCAAAGAAAGGGAGAAGAAAGCTGAAACTCTGGAAGCATTG
GAAAAGAACCAGAGACCAATGTTGCAGAAGGTGCGAGAGTGTGTAATCTAGACGAAGGATAAACATGGCAAC
AAACAGATTAATCCGGAGCGCTGGGCTGATATTTAGCCAAAGTCCGTGGGAAAAATCTCCCTAAGGGCAGAGAA
GTACCCCATTTGATTAAACCACAAGTCTCCATCCTTGAGTCTAGAAGTCACACCACCTTTCTCTGCTATTCTT
CCCCCTCAGCATCTCTGTGCAGACAGTAACAGTGTGAAGAATCCTCAGCAGATGTACCTCTACTTGGTGAA
GAAGAGCACGTTTTGGGTACCATTTCTCAGCCAGCATGGGGCTAGAACAACAACCACAATGGAGTTATTCTTGT
GAACCTGAAGTAACAAGCACACCTCTGGAGGAAGTTGTTGATGACCTTTCCGAGAAGACTGAGGAGATAACTTCC
ACTGAAGGAGACCTGAAGGGGACAGCAGCCCTACACTTATCTGAGCCTTATGAACCATCTCTACTCTGCAC
ACATTAGACACAGTCTATGAAAAGCCCACCATGAAGAGACGGCAACAGAGGGTTGGTCTGCAGCAGATGTTGGA
TCGTACACAGAGCCACATCCAGTGAGTATGAGCCTCATTGGATGCTGTCTCTTGGCTGAGTCTGAGCCCATG
CAATACCTTGACCCAGATTTGGAGACTAAGTCACAACCAGATGAGGATAAGATGAAAGAAGACACCTTTGCACAC
CTTACTCCAACCCCCACCATCTGGGTAAATGACTCCAGTACATCACAGTTATTGAGGATTCTACTATAGGGGAA
CCAGGTGTCCAGGCCAATCACATCTACAAGGACTGACAGACAACATCCACCTTGTGAAAAGTAGTCTAAGCACT
CAAGACACCTTACTGATTAAAAAGGGTATGAAAGAGATGTCTCAGACACTACAGGGAGGAAATATGCTAGAGGGA
GACCCACACACTCCAGAAGTTCTGAGAGTGAGGGCCAAGAGAGCAAATCCATCACTTTGCCTGACTCCACACTG
GGTATAATGAGCAGTATGTCTCAGTTAAGAAGCCTGCGGAACACAGTTGGTACCCTCCTAGACAAAGACACC
ACAACAGCAACAACAACACCAAGGCAAAAAGTTGCTCCGTATCCACCATGAGCACTCACCCTTCTCGAAGGAGA
CCCAACGGGAGAAGGAGATTACGCCCCAACAAATCCGCCACCGGCACAAGCAAACCCACCCACAACCTTTGCC
CCATCAGAGACTTTTTTCTACTCAACCAACTCAAGCACCTGACATTAAGATTTCAAGTCAAGTGGAGAGTTCTCTG

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FIGURE 6123B

GTTCTACAGCTTGGGTGGATAACACAGTTAATACCCCCAACAGTTGGAAATGGAGAAGAATGCAGAACCCACA
TCCAAGGGAACACCACGGAGAAAACACGGGAAGAGGCCAAACAAACATCGATATACCCCTTCTACAGTGAGCTCA
AGAGCGTCCGGATCCAAGCCCAGCCCTTCTCCAGAAAATAAACATAGAAACATTGTTACTCCCAGTTCAGAAACT
ATACTTTTGCCTAGAACTGTTTCTCTGAAAACAGAGGCCCTTATGATTCTTAGATTACATGACAACCACCAGA
AAAAATATATTCACTTACCCTAAAGTCCAAGAGACACTTCCAGTCACATATAAACCCACATCAGATGGAAAAGAA
ATTAAGGATGATGTTGCCACAAATGTTGACAAACATAAAAGTGACATTTTAGTCACTGGTGAATCAATTACTAAT
GCCATACCAACTTCTCGCTCCTTGGTCTCCACTATGGGAGAATTTAAGGAAGAATCCTCTCCTGTAGGCTTTCCA
GGAATCCAACCTGGAATCCCTCAAGGACGGCCAGCCTGGGAGGCTACAGACAGGCATACCTGTTACCCTTCT
GGGGAATCTTACAGACCCTCCCTTCTTAAAGAGCTTGAGGATGTGGATTTCACTTCCGAGTTTTTGTCTCT
TTGACAGTCTCCACACCATTTCACCAGGAAGAAGCTGGTCTTCCACAACCTCTCTCAAGCATAAAAGTGGAGGTG
GCTTCAAGTCAGGCAGAAACCACCACCCTTGATCAAGATCATCTTGAAACCACTGTGGCTATTCTCCTTTCTGAA
ACTAGACCACAGAATCACACCCCTACTGCTGCCCGGATGAAGGAGCCAGCATCCTCGTCCCCATCCACAATTCTC
ATGTCTTTGGGACAAACCACCACCCTAAGCCAGCACTTCCAGTCCAAGAATATCTCAAGCATCTAGAGATTCC
AAGGAAAATGTTTTCTGAATTATGTGGGAATCCAGAAACAGAAGCAACCCAGTGAACAATGAAGGAACACAG
CATATGTCAGGGCCAAATGAATTATCAACACCCTCTTCCGACCAGGATGCATTTAACTTGCTACAAAGCTGGAA
TTGGAAAAGCAAGTATTGGTAGTAGGAGTCTACCACGTGGCCAGATAGCCAACGCCAGGATGGAAGAGTTTCAT
GCTTCTCATCACTAACAGAGTCCCTGCCAAACCCATCCTACCAACAGCAACAGTGAGGCTGCCTGAAATGTCC
ACACAAAGCGCTTCCAGATACTTTGTAACCTCCAGTCACTCTGTCAGTGGACCAACAAACCGGAAATAACTACA
TATCCTTCTGGGGCTTTGCCAGAGAACAACAGTTTACAACCTCCAAGATTATCAAGTACAACAATTCCTCTCCCA
TTGCACATGTCCAAACCAGCATTCCCTAGTAAGTTTACTGACCGAAGAAGTACCAATTCAATGGCTACTCCAAA
GTGTTTGGAAATAACAACATCCCTGAGGCAAGAAACCCAGTTGGAAAGCCTCCAGTCCAAGAATTCCTCATTAT
TCCAATGGAAGACTCCCTTTCTTTACCAACAAGACTCTTCTTTTCCACAGTTGGGAGTCAACCCGAGACCCAG
ATACCCACTTCTCCTGCCCGAGTAATGAGAGAGAGAAAAGTTATTCCAGGTCTCTACAACAGGATACATTCCCAT
AGCACCTTCCATCTGGACTTTGGCCCTCCGGCACCTCCGTTGTGACACTCCCGAGACCACGGGATCACCTCA
ACTAATTACAGAATATCCCTATGGTCTCTTCCACCCAGAGTTCTATCTCCTTTATAACATCTCTGTCCAGTCC
TCAGGAAGCTTCCACCAGAGCAGCTCAAAGTTCTTTGCAGGAGGACCTCCTGCATCCAAATTCTGGTCTCTTGGG
GAAAAGCCACAAATCCTCACCAGTCCCCACAGACTGTGTCCGTCAACCGCTGAGACAGACACTGTGTCCCTGT
GAGGCAACAGGAAAACCAAAGCCTTTTCGTTACTTGGACAAAGGTTTCCACAGGAGCTCTTATGACTCCGAATACC
AGGATACAACGGTTTGAGGTTCTCAAGAACGGTACCTTAGTGATACGGAAGGTTCAAGTACAAGATCGAGGCCAG
TATATGTGACCGCCAGCAACCTGCACGGCCTGGACAGGATGGTGGTCTTGCTTTCCGTCAACCGTGACCAACCT
CAAATCCTAGCCTCCCACTACCAGGACGTCACTGTCTACCTGGGAGACACCATTGCAATGGAGTGTCTGGCCAAA
GGGACCCAGCCCCCAAATTCCTGGATCTTCCCTGACAGGAGGGTGTGGCAACTGTGTCCCCGTGGAGGGC
CGCATCACCTGCACGAAAACCGGACCCCTTTCCATCAAGGAGGCGTCTTCTCAGACAGAGCGTCTATAAGTGC
GTGGCCAGCAATGCAGCCGGGCGGACAGCCTGGCCATCCGCCTGCACGTGGCGGCACTGCCCCCGTTATCCAC
CAGGAGAAGCTGGAGAATCTCGCTGCCCCCGGGGCTCAGCATTCAATTCACTGCACTGCCAAGGCTGCGCCC
CTGCCCAGCGTGCGCTGGGTGCTCGGGGACGGTACCCAGATCCGCCCCCTCGCAGTTCTTCCACGGGAAGTTGTTT
GTTTTCCCCAACGGGACGCTCTACATCCGCAACCTCGCGCCCAAGGACAGCGGGCGCTATGAGTGCGTGGCCGCC
AACCTGGTAGGCTCCGCGCGCAGGACGGTGCAGCTGAACGTGCAGCGTGCAGCAGCCAACGCGCGCATCACGGGC
ACCTCCCCGCGGAGGACGGACGTCAAGTACGGAGGAACCTCAAGCTGGACTGCAGCGCTCGGGGGACCCCTGG
CCGCGCATCCTCTGGAGGCTGCCGTCCAAGAGGATGATCGACGCGCTCTTCAAGTTTGTAGTACAGAAATCAAGGTG
TTTGCCAATGGGACCCCTGGTGGTGAAATCAGTGACGGACAAAGATGCCGGAGATTACCTGTGCGTAGCTCGAAAT
AAGGTTGGTGATGACTACGTGGTGTCTCAAAGTGGATGTGGTGTGAAACCGGCCAAGATTGAACACAAGGAGGAG
AACGACCACAAAGTCTTCTACGGGGGTGACCTGAAAGTGGACTGTGTGGCCACCGGGCTTCCCAATCCCGAGATC
TCTTGGAGCCTCCCAGACGGGAGTCTGGTGAACCTCTTATGACGTGCGATGACAGCGGTGGACGCACCAAGCGC
TATGTCTCTTCAACAATGGGACACTCTACTTTAACGAAGTGGGGATGAGGGAGGAAGGAGACTACACCTGCTTT
GCTGAAAATCAGGTCGGGAAGGACGAGATGAGAGTCAGAGTCAAGGTGGTGACAGCGCCCGCCACCCTCGTTT
AAGACTTACTTGGCGGTTTCAAGTGCCTATGGAGACGTGGTCACTGTAGCCTGTGAGGCCAAAGGAGAACCCATG
CCCAAGGTGACTTGGTGTGTTCCCAACCAACAAGGTGATCCCCACCTCCTCTGAGAAGTATCAGATATACCAAGAT

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FIGURE 6123C

GGCACTCTCCTTATTCAGAAAGCCCAGCGTTCTGACAGCGGCAACTACACCTGCTTGGTCAGGAACAGCGCGGGA
GAGGATAGGAAGACGGTGTGGATTACGTCAACGTCCAGCCACCCAAGATCAACGGTAACCCCAACCCCATCACC
ACTGTGCGGGAGATAGCAGCCGGGGGCAGTCGGAACTGATTGACTGCAAAGCTGAAGGCATCCCCACCCCGAGG
GTGTTATGGGCTTTTCCCGAGGGTGTGGTTCTGCCAGCTCCATACTATGGAAACCGGATCACTGTCCATGGCAAC
GGTTCCTGGACATCAGGAGTTTGGGAAGAGCGACTCCGTCCAGCTGGTATGCATGGCAGCAACGAGGGGAGGG
GAGGCCAGGTTGATCCTGCAGCTCACTGTCTGGAGCCCATGGAGAAACCCATCTTCCACGACCCGATCAGCGAG
AAGATCACGGCCATGGCGGGCCACACCATCAGCCTCAACTGCTCTGCCGCGGGGACCCCGACACCCAGCCTGGTG
TGGGTCTTCCCAATGGCACCGATCTGCAGAGTGGACAGCAGCTGCAGCGCTTCTACCACAAGGCTGACGGCATG
CTACACATTAGCGGTCTCTCTCGGTGGACGCGGGGCCCTACCGCTGCGTGGCCCCGCAATGCCGCTGGCCACACG
GAGAGGCTGGTCTCCCTGAAGGTGGGACTGAAGCCAGAAGCAAACAAGCAGTATCATAACCTGGTCAGCATCATC
AATGGTGAGACCTGAAGCTCCCCTGACCCCTCCCGGGGCTGGGCAGGGACGTTTCTCTGGACGCTCCCCAAT
GGCATGCATCTGGAGGGCCCCAAACCTGGGACGCGTTTCTCTTCTGGACAATGGCACCCCTACGGTTCGTGAG
GCCTCGGTGTTTACAGGGGTACCTATGTATGCAGGATGGAGACGGAGTACGGCCCTTCGGTCACCAGCATCCCC
GTGATTGTGATCGCTATCTCTCCCGGATCACCAGCGAGCCACCCCGGTCTCTACACCCGGCCCGGGAACACC
GTGAACTGAAGTGCATGGCTATGGGGATTCCCAAAGCTGACATCACGTGGGAGTTACCGGATAAGTCGCATCTG
AAGGCAGGGGTTAGGCTCGTCTGTATGGAAACAGATTTCTTACCCCGAGGATCACTGACCATCCAGCATGCC
ACACAGAGAGATGCCGGCTTCTACAAGTGCATGGCAAAAACATTCTCGGCAGTGACTCCAAAACAACCTTACATC
CACGTCTTCTGAAATGTGGATTCCAGAATGATTGCTTAGGAACTGACAACAAAGCGGGGTTTGTAAAGGAAGCCA
GGTTGGGGAATAGGAGCTCTTAAATAATGTGTACAGTGCATGGTGGCCTCTGGTGGGTTTCAAGTTGAGGTTGA
TCTTGATCTACAATTGTTGGGAAAAGGAAGCAATGCAGACACGAGAAGGAGGGCTCAGCCTTGCTGAGACATTT
CTTTGTGTTTACATCATGCCAGGGGCTTCATTACGGGTGTCTGTGCTCTGACTGCAATTTTCTTTTTTGGCAA
ATGCCACTCGACTGCCCTCATAAGCGTCCATAGGATATCTGAGGAACATTCATCAAAAATAAGCCATAGACATGA
ACAACACCTCACTACCCCATTTGAAGACGCATCACCTAGTTAACCTGCTGCAGTTTTTACATGATAGACTTTGTTC
CAGATTGACAAGTCACTCTTTTCAAGTTATTTCTCTGTCACTTCAAACTCCAGCTTGCCCAATAAGGATTTAGAAC
CAGAGTGAAGTATATATATATATATTTTAAATTCAGAGTTACATACATACAGCTACCATTTTATATGAAAAAAGAA
AAACATTTCTTCTGGAACTCACTTTTTATATAATGTTTTATATATATATTTTTCTTTTCAAATCAGACGATGA
GACTAGAAGGAGAAATACTTTCTGTCTTATTAATAAATAAATTATTGGTCTTTACAAGACTTGGATACATTAC
AGCAGACATGGAAATATAATTTTAAAAAATTTCTCTCAACCTCCTTCAAATTCAGTCACCACTGTTATATTACC
TTCTCCAGGAACCCCTCCAGTGGGGAAGGCTGCGATATTAGATTTCTTGTATGCAAAGTTTTTGTGAAAGCTGT
GCTCAGAGGAGGTGAGAGGAGAGGAAGGAGAAAACCTGCATCATACTTTACAGAATTGAATCTAGAGTCTTCCCC
GAAAAGCCCAGAACTTCTCTGCAGTATCTGGCTTGTCCATCTGGTCTAAGGTGGCTGCTTCTTCCCCAGCCATG
AGTCAGTTTGTGCCCATGAATAATACACGACCTGTTATTTCCATGACTGCTTACTGTATTTTAAAGGTCAATAT
ACTGTACATTTGATAATAAAATAATATTCTCCC

6635/6881
FIGURE 6124

GGCACGAGGGGAGGCCGGGGCGGGGCGGGCGCAGCCGGCGCTGAGCTTGCAGGGCCGCTCCCTCACC CGCCCC
TTCGAGTCCCCGGGCTTCGCCCCACCCGGCCCGTGGGGGAGTATCTGTCTGCCGCTTCGCCCCACGCCCTGCAC
TCCGGGACCGTCCCTGCGCGCTCTGGGCGCACCATGCCCCGCGGGGCGCGCTGGCGCTGCTGCTCTTCGGCCTG
CTGGGTGTTCTGGTCGCCGCCCCGGATGGTGGTTTCGATTATCCGATGCCCTTCCTGACAATGAAAACAAGAAA
CCCACTGCAATCCCCAAGAAACCCAGTGTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAAT
GACGACCCACGACCACCGAACCCACCCAAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCCTCCGGTAGC
TTTTCAGATGCTGACCTTGGCGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGATGGTGAGGCAGCCAC
AGGAAAGAAGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCCGGGATTGTGGGGGCTGTCGTGGTCGCCGTGGCT
GGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAAGCTATGCTTCAAAGAAAATGCAGAACAAGGGGAGGTG
GACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTACGCTACTCTTTTAGAGAAATAGAGATTGTC
GGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACCTGCCTG
AGAGCAGAGATGGAGGCCTTCTGTTACAGGCGGATTCTTTGTTTTAATCTTGCGATGTGCTTTGCTTGTGCTGG
GCGGATGATGTTTACTAACGATGAATTTTACATCCAAAGGGGATAGGCACCTGGACCCCCATTCTCCAAGGCC
GGGGGGCGGTTTCCCATGGGATGTGAAAGGCTGGCCATTATTAAGTCCCTGTAACTCAAATGTCAACCCACCG
AGGCACCCCCCGTCCCCCAGAATCTTGGCTGTTTACAAATCACGTGTCCATCGAGCACGTCTGAAACCCCTGGT
AGCCCCGACTTCTTTTTAATAAAATAAGGTAAGCCCTTCAATTGTTTCTTCAATATTTCTTTCATTGTAGGG
ATATTTGTTTTTCATATCAGACTAATAAAAAGAAATTAGAAACCAAAAAAAAAAAAAAAAAAAAAA

6636/6881
FIGURE 6125

MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDDP RPPNPPKP
MPNPNPNHPSSSGSFSDADLADGVSGGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAVAGAISSFIAYQK
KKLCFKENAEQGEVDMESHNRNANAEPVQRTLLEK

6637/6881
FIGURE 6126

CGGGGCGGCGGCGGCGGCGTGAAGTCACTGCTGCTCTGGGTTTCGGGTTGGCGACTGAAGGCGGTACCGGCCTCCC
GGAACAGCCCCGGGGGAGGGCTTAGGTGCAGAAGGGCAGGCTGGCCGCGGCCGGTTTGGTCTGGGGACCACGGGCT
GGAGCAGGTGGAAATTTAAATTTGTTTACAGTCAACACTGTTTCCAGCCATGGGTTTGTCTCCATCTGCTCCTGC
TGTTGCAGTTCAGGCCTCAAATGCTTCAGCGTCCCCACCTTCAGGATGCCCGATGCATGAAGGGAAAATGAAAGG
CTGTCCAGTGAATACAGAGCCATCTGGCCCAACCTGTGAGAAGAAAACATACTCTGTGCCTGCCCACCAGGAACG
CGCCTATGAGTACGTGGAGTGTCCCATTAGGGGCACTGCGGCTGAGAATAAGGAGAACCTAGATCCTTCAAATCT
GATGCCACCACCAAATCAAACACCAGCTCCAGATCAGCCATTTGCATTGTCTACTGTCAGAGAAGAGTCATCCAT
TCCGAGAGCAGATTCAGAGAAAAAGTGGGTTTACCCTTCTGAGCAGATGTTCTGGAATGCAATGTTAAAGAAAGG
GTGGAAGTGGAAAGGATGAGGATATCAGTCAGAAGGATATGTATAATATCATTAGAATTCACAATCAGAATAACGA
GCAGGCTTGGAAAGGAGATTTTGAAGTGGGAAGCCCTTCAIGCTGCAGAGTGTCTTGTGGTCCATCATTGATCCG
GTTTGGAGGGAAGCAAAAGAGTATTCACCAAGGGCACGAATTCGTTTCCTGGATGGGGTATGAGTTGCCTTTTGA
TAGGCACGATTGGATCATAAACCGTTGCGGGACAGAAGTTAGATATGTGATTGATTATTATGATGGTGGTGAAGT
CAACAAGGACTACCAGTTCACCATCCTGGACGTCCGTCTGCCTTAGATTCACTTTCGGCAGTATGGGACAGAAT
GAAAGTCGCTTGGTGGCGTTGGACCTCGTAAAGCACTGTTTCAGATGGAAAAATATAAACTATTTTTTTCTGAGC
GATACATTAACTATTTTCCCAGAAAAAAAAAAAA

6638/6881
FIGURE 6127

MGLSPSAPAVAVQASNASASPPSGCPMHEGKMGCPVNTEPSGPTCEKKTYSVPAHQERAYEYVECPIRGTAAEN
KENLDPSNLMPPPNTQTPAPDQPFALSTVREESSIPRADSEKKWVYPSEQMFWNAMLKKGWKWKDEDISQKDMYNI
IRIHNQNNQAWKEILKWEALHAAECPCGPSLIRFGGKAKEYSPRARIRSWMGYELPFDRHDWIINRCGTEVRYV
IDYYDGGEVKNKYQFTILDVRPALDSLAVWDRMKVAWWRWTS

6639/6881

FIGURE 6128

GAGATCTGATGGTTTTATAAGAGGAGTTCCCCTGCACAAGCTCCCTCTCTTGCCTGCCACCATGTAAGAAGTCC
CTTTGGTCTTCCTTTGTCTTCTGCCGTGATTGTGAGGCCTCCCCAGCCATGTGGAACTTATAAAATAATAAGATG
GCTGATCCTGCAAAGAGGCGCGGTGACATCAACAGTGACTCAGTCTCTATGATGGTATTAGTAACTGGCAGCTGA
CTCTCCTATTTATCATCAAGTTATGTTCCAAATAAGACTTTCAAGTCTGAGAAAAATGACAAATCCCTTCCAGGC
ATGGTTCAAGTTAAAGCTGAACTGTGTCTTCGTTTCAGCTCAAGAGAGGTTTTGATTGTGTGCTGGCTTTTCCT
TGTGTATTGGTTGAGGAAGTGTGCCTTGGAGGGGCGGGGAGTCTTGAGAATGGGTCAACTGATGGAGGGGGAGTG
GAAGACATTGGTTGCCCAAGAAAATATGTCAACATCTGTCCATCACTGCAACTCCGGCCTGATTATCATTTC
TGCTTCTGTAAGCACCAATGAGACAATGCCACTGAACCACATTCTTTGTTGCCTGCAGTATTTCCCACTGCG
CCACCTCTGATATGCTAATGAGGAAGCCCAGGGTTTTGTGTGGCTGAAAAGCCTTTTCAGGCACAATCAGTGGGTC
ACAATCTCAACTCTGTACAGCGGCTCAGCCTGCTCTGTGAGAGGCTCCTCTTTTCGGAGGGGTCCTTCCTCACAC
CTTTCTGTGAGTGCGTCTGTGCTTAAGGAAGGGCAATTAACCATCTGGCTGCTTGTCCCCTGGAGAAATTGACA
GAACATCAAACAGAATAAACTCATACCTTGAAAAGTCCAAGTGGCACATGACTGTCCGGTTCACTGTGGGGA

6640/6881
FIGURE 6129

MFQIRLSSLRKMTNPFQAWFKLKLKLCRFSSREVLIVSWLFLVYWLRNCALEGRGVLRMGQLMEGEWKTIVAQE
NMSTSVHHCNSGLIIIFSASVSTNETMPLNHILCCLQYFPPLRHL

6641/6881
FIGURE 6130

CGGACATCTCCCTGGGAGTCGCGCAGAGTGGAGTCAAAGGCAACCAAGTCTCGCTGCGGTCTCTGGGGATCGGGA
CCGCGGGCGGCGCCCGCGAGCGGGATGTTCCGGGGCTTGAGCAGTTGGTTGGGCTTGACAGCAGCCGGTGGCAGGC
GGTGGGCAGCCCAATGGAGATGCTCCACCCGAGCAGCCGTCCGAGACGGTGGCTGAGTCTGCGGAGGAGGAGCTG
CAGCAAGCGGGAGACCAGGAGCTCCTCACCAGGCCAAGACTTCGGCAACTATTTATTTAACTTTGCATCTGCT
GCCACAAAAAGATAACTGAATCAGTTGCTGAAACAGCACAAACAATAAAGAAATCCGTAGAAGAAGGAAAAATA
GATGGCATCATTGACAAGACAATTATAGGAGATTTTCAGAAGGAACAGAAAAAATTTGTTGAAGAGCAACATACA
AAGAAGTCAGAAGCAGCTGTGCCCCCATGGGTTGACACTAACGATGAAGAAACAATTCAACAACAAATTTTGGCC
TTATCAGCTGACAAGAGGAATTTCTTCGTGACCCTCCGGCTGGCGTGCAATTTAATTTGACTTTGATCAGATG
TACCCCGTGGCCCTGGTCATGCTCCAGGAGGATGAGCTGCTAAGCAAGATGAGATTTGCCCTCGTTCCTAACTT
GTGAAGGAAGAAGTGTCTGAGGAACTACTTTTACCGCTCTCCCTGATTAAAGCAGTCAGCCCAGCTCAGGCC
CTGGCTGCCCCAACAGCAGGCCCGCAGGGAAGGAGGAGAAGCAATGGCAGAGAGCAAGATTTGCCGCTGGCAGAG
GCAGTACGGCCCAAACGCCACCCGTTGTAATCAAATCTCAGCTTAAACTCAAGAGGATGAGGAAGAAATTTCT
ACTAGCCAGGTGTTTCTGAGTTTGTCTAGTGATGCCTTCGATGCCTGTAACCTAAATCAGGAAGATCTAAGGAAA
GAAATGGAGCAACTAGTGCTTGACAAAAAGCAAGAGGAGACAGCCGTACTGGAAGAGGATTCTGCAGATTGGGAA
AAAGAACTGCAGCAGGAACCTCAAGAATATGAAGTGGTGACAGAATCTGAAAAACGAGATGAAAACTGGGATAAG
GAAATAGAGAAAATGCTTCAAGAGGAAAATAGCTGTTCTGAAATAGAAGAATAATCCTTAACAGTCTGCAAC
TGACATTAAATTCTAGATGTTGACAATTACTGAATCAGAAGGCATGAAAGAGTATAATTTTATGAAATTCAAAT
TATTCCTTTTTCAAGTTGAAACTTGCCCTCTTCTACTTTAAAAAGTATATAGAACAGTTACTTCTAATAATCAGA
AAGAGATGTTTTATAGAACATTTCTTTAATATAAAGTTAGAGATGTCTTCATAGGCAGTATGGCTATCTTTGCCA
CAGAAACATAAGTAAATTTTAGAGTTCTGTTTTCCATGAGGTCAAAAATATAATTTATTCCTCAGTCATGGTTT
TCTAAATATCTGTACTCCACATTCCATTTTAATTGATATGAGGGTGTTAAAGTACCTACTTAATGGGTTGATTAC
TATCAAATGACCAAATTATACCAAAGAACTTAAGAGGAAGCACTTTCAGAACTATTCACTTGCCAGGTATTTTC
TAAAATTCACCTGAAAGCCAAAAGATAAAATAAATAAGTTGATTTTAATGATATAAGCATCACACAATTTTACA
TTAAGAAATACTGTGCAGGCCATGCGTGGTGGCTCAGGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCA
GATCACCAGGAGTTCAGGAGTTTCGAGACCAGCCTTGCCAACATAGTGAAACCCTGTCTCTACTAAAAATACAAAA
TTAGCCGGGCATGGTGGCAGGCACCTGTAATCCCAGCTACTAGGGAGGCTTTTGAACCCAGGAGGCAGAGGTTGC
AGCGAGCTGAGATCGCGCCACTGCACTCCAGCCTGGGTGATAGAGTGAGATTCAGTCTC

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FIGURE 6131

ATGGAGAAAAACAAAACAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAACAGGAATATGTGGTGGAAAAA
GTTCTCTACCGTCGATTGCCCCGCCCCCATATCCCCTCCTTCTGCCAACTTTATCACTTAAGACAGACTGCCTG
GGTCACCCTGTTTATGACAATAGAAGAATAAGGAAAGAACACTCTTCCCCTGCTCAAATCCTCCAATGTACCTGC
CGTACCCACGGGCATGACAGACGGCACTGCTCGTTCCCATGCTCTGCTGCAAAGGTGGGCCTGGCAGCCTTGTGT
GGGCACCATGACCCACCTCACACCTGGCGTCACCTGAGTGGGAGAAAGGAGAGCCAACCCAAGGAGAAGAAAGAA
GGGTCGGAAAAGCCCCGAGGCTTTGTTCAGGTTTGGGAAGCCGGAACCAGATTATTGGAGCTACAGACCTCCAGTG
GGAGAGCTCATGTTCCTGATGAAAGGGAAAAATTTTGATGAGGCTGACCTCGTCCCTGCCAAGGAAGTCAATGTC
AAATGCCACGGGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCTACCCCAAGAGGATGATGAC
AAGAATTAA

6643/6881
FIGURE 6132

TGTTTGAAGATACTGTGGAGGAGCGTGTCAATGAAGAATATAAAATCTGGAAGAAGAATACACCGTTTCTAT
ATGACCTGGTTATGACCCCATGCTCTTCAGTGGCCCAGTCTTACCGTTCAGTGGCTTCCTGAAGTGAATAACCTG
AAGGAAAAGATTATGCCCTTCATTGGCTAGTGTCTGGGGACTCATACGTCTGATGAGCAGAATCATCTGGTGGTTG
CTCGAGTACATATTCCCAATGATGATGCACAGTTTGATGCTTCCCATTGTGACAGTGACAAGGGTGAATTTGGTG
GCTTTGGTTCTGTAAACAGGAAAAATTGAATGTGAAATTAAATCAATCACGAAGGAGAAGTAAACCGTGCTCGTT
ACATGCCGAGAAATCCTCACATCATTGCTACAAAAACACCATCTTCTGATGTGTTGGTTTTTGAATAACAAAC
ACCTGCTAAACCAGACCCAAGTGGAGAATGTAATCCTGATCTCAGATTAAAGAGGTCACCAGAAGGAAGGCTATG
GTCTCTCCTGGAATTCAAATTTGAGTGGACATCTCCTAAGTGCATCTGATGACCATACTGTTTGTCTGTGGGATA
TAAACGCAGGACCAAAAGAAGGCAAAATTGTGGATGCTAAAGCCATCTTTACTGGCCACTCAGCTGTTGTAGAGG
ATGTGGCCTGGCACCTGCTGCACGAGTCATTGTTTGGATCTGTTGCTGATGATCAGAACTTATGATATGGGACA
CCAGGTCCAATACCACCTCCAAGCCGAGTCACCTGGTGGATGCGCACACTGCCGAAGTCAACTGCCTCTCATTCA
ATCCCTACAGCGAATTTATTCTAGCCACCGGTCTGCGGATAAGACCGTAGCTTTATGGGATCTGCGTAACTTAAA
ATTAAACTCCATACCTTCGAATCTCATAAAGATGAAATTTCCAGGTCCACTGGTCTCCACATAATGAACTAT
TCTGGCTTCAAGTGGTACTGACCGCCGCTGAATGTGTGGGATTTAAGTAAAATTGGGGAAGAACAATCAGCAGA
AGATGCAGAAGATGGGCCTCCAGAATCCTGTTTATTTCATGGAGGACACACTGCTAAGATTTTCAATTTTAGCTG
GAACCCCAATGAGCCTTGGGTCAATTTGCTCAGTGTCTGAGGATAACATCATGCAGATATGGCAAATGGCTGAAAA
TATTTACAATGATGAAGAGTCAGATGTCACGACATCCGAATGGAGGGACAAGGATCTTAAACCCAAAGTACGAG
AAATGTTTCTGTTGAATGTAATGCTACATGAATGCTTGATTATCAAGCGCCAAAAAGGCATTGTATAGTAGGAA
ATGTAAGTGGGGTGGCTTATGGCTTCTTTATCCTCTGATTCTAGCACTTTCAAGTGAGCTGTTGCGTACTGTATC
ATATTGTAGCTATTAGGGAAGAGAAGAATGTTGCTTAAGAAAGAACATCACCATTGATTTTAAATACAAGTAGCA
GGGTATTGCCTTTGATTCAACTGTTTTAAGTCCTCATTCTCAAATAAGTGCTTGCTGTTCCCAAATATGCAA
GAATAACTTTTACACTTTTTCCTTCCAACACTTCTTGATTGGCTTTGCAGAAATAAAGTTTTAAAT

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FIGURE 6133

MTHALQWPSLTVQWLPEVTKPEGKDYALHWLVLGHTSDEQNHLVVARVHIPNDDAQFDASHCDSKGEFGGFGS
VTGKIECEIKINHEGEVNRARYMPQNPHEIATKTPSSDVLVFDYTKHPAKPDPSGECNPDRLRGHQKEGYGLSW
NSNLSGHLLSASDDHTVCLWDINAGPKEGKIVDAKAIFTGHSVVEDVAWHLLHESLFGSVADDQKLMIWDTRSN
TTSKPShLVDAHTAEVNCLSFNPYSEFILATGLRIRP

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FIGURE 6134

ATCACTGGTCTCGCGTGCGCGTGACCAGGCCCGGTTTCCGGTGCCAGGACCTTTCCGAAGCGTCGAGTGGCCTAA
CGGTACAGCTGTGCGCCATCGGAGAGGCAGGACTACTGCGAGCAGTTTTACCGCGACCTCCGGAGGCCGGCGTG
ACAGGCTCTGTCACTAAAAATAGGAACCGAATATTGTATCTGACGCATCCTGTAATACTGAAGAGCAACTGAAGAC
AGTTGATGATGTCCTTATTCATTGCCAGGTTATATATGATGCTCTGCAAAACCTGGATAAGAAGATTGATGTGAT
TCGTAGAAAGGTTTTCAAAAATCCAACGTTTCCATGCGAGATCCCTGTGGACAAAATCATAAGCGATATGGATATAA
AAAGCATTCTTACCGGCTTGTTAAAAAGCTTAAACTCCAGAAAATGAAGAAAAATGAGGTTTACGAGACATTCTC
CTACCCTGAAAGTTACAGCCCCACTTTACCACTGTCAAGGCGTGAGAATAATTCCCCGAGCAACCTTCCAAGGCC
ATCCTTTTGCATGGAAGAATACCAGCGAGCTGAGCTGGAGGAGGCCCGATCCTCAGCCGCACTCCGAGTCCAGT
GCATCCCTCAGATTTCTCTGAGCATAATTGTGAGCCGTAATTATGCATCTGATGGTGCAACGTATGGTTCTTCTTC
AGGGCTCTGCCTTGGCAACCTCGGGCTGACAGCATCCACAACACTTACTCAACTGACCATGCTTCTGCAGCACC
ACCTTCAGTTACAAGGTCACCACTTGAAGATGACGGTTACATAGAGGAAGGAAGCATCACTAAGCACCTTCAAC
CTGGTCGGTGGAAGCAGTGGTCTTATTTCTAAACAAACAGATCCTCTTGCAATTATGCCCTCTTGTCGACCTCTT
CAGAAGCCATGAAATTGACGGGAAGGCTCTGCTCCTACTCACGAGTGACGTGTTGCTGAAGCACTTGGGGGTGAA
GCTGGGAACGGCTGTGAAGCTATGCTACTACATTGACCGACTTAAACAAGGAAAATGCTTTGAAAATGAAGAAAA
TCCTTGTGCAAAATTTAGATTGGGCCAATTTCTAGAGGCACCAATGCCTTCTTAGTGTGGAATCATTTTCTGCC
TTTAGTCGTTTTTGTGTTTGTAGAAAGTATCTCTCAAAATATATTATAGCTAGAAATTGTAGAACTATGTTATAGTC
CAGTCTACTTCTTTAAACCACTTTAAACTGCTAGATAGTATTAGAATAGTCCAATAGAAAATTCATTCTTTATA
GGTCTTTAAAAATTACTTTTTATTATATTGTTTACAAATATATTTCATGCAAGAAACAGAAAAAACCCT
TTGATTCTGGTTCATCTCGATACAGAGAACCAAAACAGCTAAGAGAGGTATTATCAGGGTTGACAACTCCTATGA
TTGAATCTATGGGAATTATTCCTCAGAAGAGAATTTAAAGGTGTACCCATATATATCTCTTCTGGAGTATTTTA
TCTGTCTGATGTTGCAGTATTCTACAAGTTTCCAGAAAGAGAATAGCCATATAAATTATTTCTCTTCTGCTATT
ATTTCTCTATATGTTTTATTTATTCAGATTTAGAGTAAAAAATAAGCATATAAATTTTATTATGTGCTCTTAAC
AGTTTTAAGATAAACTATAGGATAGATAGAATGGTTATTTTATGCAAGAAATATTGTACCGCAAGGGTGGTTTG
ATGAAGTCTGACTACTTTTTTCAAACAACTATTATATTAAACTGTCAATTTTGGCTAAGTTTGACCTATA
ACTACACTTTCAATGTTTGCATCTCTCTATGAAGATACGTCTGTCCAACTTTTAAAGGCATAACTGTATTTTA
TGTGTTTTATTCTTTATATAGATAGTATTTTATTTTTATTCTCACCCGAAGTATTCACACAATCTTTTTAAAAA
AATTTGAAATGGCATTGTTGATTGCCACAGAGGTAGGATGAGCCATATATTAGTGAAATGTTTTATTTGTAAAA
TATAAATGGATTATTTGCCATCATTAGTACCTCTCACTTACTTTTTAGAGGACAAGAAACAATCTGTAGATTGG
TTCCATACAGGGAAGTTCTCCGTCTATGCAATGTTTCTAATTAATTTGCTTAATTCTGAGCCATTATCTCTGC
TACACTTTGAATGATACATTAATTACAGACTAATCTTTGGGGGCTTTATTTGTAAAGTTAGAACTTTCAAGGAAA
CATGTTCAACACTATTATTTGTTATAAATTTATAACTTTGTTATTACATTGTGTAACAAATATAAGGTTTACGA
GCTATGAGAATTGGTGCTATCACCATTAGCTATTGCTGTAATGTCAAGAAATGTTCAACAGATGCAAGAATGT
ACCTTTTCTTTTGAAGGCCAATGTACTTTAGACATGAATGCAACTATTTAAAGAATAGCTTCATCAATGTTA
TTCCTTACATGTCATAAGATTCTTACTTAACTTGGTCTTCTTTCAAATGTTTGTATGAAGATGCTGTACCCAC
TTGAACAGTCTCAGGTGTTTACATAAATACTATGTTTACAGTTTTCATATTTTAAATATTAATAAAGTTAAA
TCACAATAGT

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FIGURE 6135

MKKNEVYETFSYPESYSPTLPVSRRENNSPSNLPRPSFCMEEYQRAELEEDPILSRTPSPVHPSDFSEHNCOPY
ASDGATYGSSSGLCLGNPRADSIHNTYSTDHASAPPSVTRSPVENDGYIEEGSITKHPSTWSVEAVVLFQKTD
PLALCPLVDLFRSHEIDGKALLLTSDVLLKHLGVKLGTAVKLCYYIDRLKQKCFEN

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FIGURE 6136

ATGAGCGAGTCGATCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGATGGCACTGAGAAGCGGAGC
TGGGGCAGGCCGCGCAAGCAGCCTCTGGTGAGTCCCAGGACAGCGCTGGGAGGGAGTCAGAAGGAGCCCAGTGAA
GTGCCAAAACCTAAGAGACCTCAGGGCCGACCAAATGGAAGGAAAAACAAGGACGCTGCCAAGACCTGGAAAACC
ACCACAACCTCCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAGAAGGAGGAAGAGGAGGGGCATCTCACAG
GAGTCCTCGGAGGAGGAGCAATTGA

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FIGURE 6137

MSESISKSSQPLASKQEKDGTETKRSWGRPRKQPLVSPRTALGGSQKEPSEVPKPKRPQGRPNGRKNKDAKTWKT
TTTPGRKPRGRPKKLEKEEEEGISQESSEEEQ

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FIGURE 6138

ACTGAGGCGTGGCGTCTGCTGGGGCACCTGAAGGAGACTTGGGGGCACCCGCGTCGTGCCTCCTGGGTTGTGAGG
AGTCGCCGCTGCCGCCACTGCCTGTGCTTCATGAGGAAGATGCTCGCCGCCGTCTCCCGCGTGTCTGTCGGCGCT
TCTCAGAAGCCGGCAAGCAGAGTGCTGGTAGCATCCCGTAATTTTGCAAATGATGCTACATTTGAAATTAAGAAA
TGTGACCTTCACCGGCTGGAAGAAGGCCCTCCTGTACACAACAGTGCTCACCAGGGAGGATGGGCTCAAATACTAC
AGGATGATGCAGACTGTACGCCGAATGGAGTTGAAAGCAGATCAGCTGTATAAACAGAAAATTATTTCGTGGTTTC
TGTCACTTGTGTGATGGTCAGGAAGCTTGTGTGTGGGCCCTGGAGGCCGGCATCAACCCACAGACCATCTCATC
ACAGCCTACCGGGCTCACGGCTTTACTTTACCCGGGGCCTTTCCGTCCGAGAAATTCTCGCAGAGCTTACAGGA
CGAAAAGGAGGTTGTGCTAAAGGGAAAGGAGGATCGATGCACATGTATGCCAAGAACTTCTACGGGGGCAATGGC
ATCGTGGGAGCGCAGGTGCCCCCTGGGCGCTGGGATTGCTCTAGCCTGTAAGTATAATGGAAAAGATGAGGTCTGC
CTGACTTTTATATGGCGATGGTGCTGCTAACCAGGGCCAGATATTGGAAGCTTACAACATGGCAGCTTTGTGAAA
TTACCTTGTATTTTCATCTGTGAGAATAATCGCTATGGAATGGGAACGCTCTGTTGAGAGAGCGGCAGCCAGCACT
GATTACTACAAGAGAGGCGATTTTCATTCTGGGCTGAGAGTGGAATGGAATGGATATCCTGTGCGTCCGAGAGGCA
ACAAGGTTTGCTGCTGCCTATTGTAGATCTGGGAAGGGGCCATCCTGATGGAGCTGCAGACTTACCGTTACCAC
GGACACAGTATGAGTGACCCTGGAGTCAGTTACCGTACACGAGAAGAAATTCAGGAAGTAAGAAGTAAGAGTGAC
CCTATTATGCTTCTCAAGGACAGGATGGTGAACAGCAATCTTGCCAGTGTGGAAGAACTAAAGGAAATTGATGTG
GAAGTGAGGAAGGAGATTGAGGATGCTGCCCAGTTTGCCACGGCCGATCCTGAGCCACCTTTGGAAGAGCTGGGC
TACCACATCTACTCCAGCGACCCACCTTTTGAAGTTGCTGGTGCCAATCAGTGGATCAAGTTTAAGTCAGTCAGT
TAAGGGGAGGAGAAGGAGAGGTTATACCTTCAGGGGGCTACCAGACAGTGTCTCAACTTGGTTAAGGAGGAAGA
AAACCCAGTCAATGAAATTCAATGAAATTTCTGGAACTTCCATTAAGTGTGTAGATTGAGCAGGTAGTAATTGC
ATGCAGTTTGTACATTAGTGCATTAAAAGATGAATTATTGAGTGCTT

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FIGURE 6139

MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTREDGLKYYRMMQTVRME
LKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDHLITAYRAHGFTFTRGLSVREILAEITGRKGGCAKGG
GSMHMYAKNFYGGNGIVGAQVPLGAGIALACKYNGKDEVCLTLYGDGAANQGQIFEAYNMAALWKLPCIFICENN
RYGMGTSVERAAASTDYYKRGDFIPGLRVDGMDILCVREATRFAAAYCRSGKGPILMELQTYRYHGHSMDPGVS
YRTREEIQEVRSKSDPIMLLKDRMVNSNLASVEELKEIDVEVRKEIEDAAQFATADPEPPLEELGYHIYSSDPPF
EVRGANQWIKFKSVS

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FIGURE 6140

GGGCGCAGCACACTCCCAGCCGGCCGCGAGCCTGACACGCCGCGCGGCCCCCAGTCTCCCGCGGCTGCTCCCCCA
GGCATGGCACAGGGCCTCGCCTCACTATGGCAGCAGCACGGCACAGCACGCTCGACTTCATGCTCGGCGCCAAAG
CTGATGGTGAGACCATTCTAAAAGGCCTCCAGTCCATTTTCCAGGAGCAGGGGATGGCGGAGTCGGTGACACCT
GGCAGGACCATGGCTATTTAGCAACCTACACAAACAAGAACGGCAGCTTTGCCAATTTGAGAATTTACCCACATG
GATTGGTGTGCTGGACCTTCAGAGTTATGATGGTGATGCGCAAGGCAAAGAAGAGATCGACAGTATTTGAACA
AAGTAGAGGAAAGAATGAAAGAATTGAGTCAGGACAGTACTGGGCGGGTGAAACGATTACCACCCATAGTGCGAG
GAGGAGCCATCGACAGATACTGGCCACCGCCGACGGGCGCCTGGTTGAATATGACATAGATGAAGTGGTATATG
ACGAAGATTACCTTATCAAAATATAAAAATTCTACACTCGAAGCAGTTTGGAATATTCTCATCCTTAGTGGGG
ATGTTAATTTGGCAGAGAGTGATTGGCATATACCCGGGCCATCATGGGCAGTGGCAAAGAAGATTACACTGGCA
AAGATGTACTCATTCTGGGAGGTGGAGACGGAGGCATATTGTGTGAAATAGTCAAACATAAACCAGATGGTCA
CTATGGTAGAGATTGACCAATGGTGATTGATGGGTGTAAGAAATACATGCGAAAAACGTGTGGCGATGTCTTAG
ACAATCTTAAAGGAGACTGCTATCAGGTTCTAATAGAAGACTGTATCCCGGTACTGAAGAGGTACGCCAAAGAAG
GGAGAGAATTTGATTATGTGATTAATGATTTGACAGCTGTTCCAATCTCCACGTCTCCAGAAGAAGATTCCACAT
GGGAGTTTCTCAGACTGATTCTTGACCTCTCAATGAAAGTGTTGAAACAGGATGGGAAATATTTTACACAGGGGA
ACTGTGTCAATCTGACAGAAGCACTGTCGCTCTATGAAGAACAGCTGGGGCGCCTGTATTGTCCTGTGGAATTT
CAAAGGAGATCGTCTGTGTCCCTTCATACTTGGAATTGTGGGTATTTTACACTGTTTGAAGAAAGCTAAACCCT
GAAGATCAGTAGCCCTAATCACATGTGCTGCAAATAGCCTTCCTGACCTCCATATGCTGTACATGACATCAAAA
TGAGTCAGGCAATTGATTGTGAATTCCTTAAAGTTTTCTTTTTTAAATAATTATTTTAAATTAAGCAAA
TGGAATGTATATTTTGATGAGCTTAGGGTGTTTTTTTTTTGAAGTCAGCTGAAGGATGGTTAGACAGCACAG
CGAAGACTGCTAAATGCACTGACCCCCCATTAGAATGTGATTTTGTTCCTTTTATTTCTGTGGGCTTTT
GTTTTGTTTTTGTGGTAGATCTTCAATTTGGATATTTGGAGGAGTGAACATCGTTGTTTGTGCTGGAGGGAA
GATCTTGATGGTGTCTTTCCCCAAAAATTGACTTAGATATTAATTTTGGTGCTTATAAGAGAGAGTTAAAAA
AAATAGGATTGCTTCAATTAATTAAGAGACAAAAA

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FIGURE 6141

MAAARHSTLDFMLGAKADGETILKGLQSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVLLDLQS
YDGAQGGKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGIDRYWPTADGRLVEYDIDEVYDEDSFYQNI
KILHSKQFGNILILSGDVNLAESDLAYTRAIMGSGKEDYTGKDVILGGGDDGILCEIVKLKPKMVTMVEIDQMV
IDGCKKYMRTCGDVLNLDKGDYQVLIEDCIPVLKRYAKEGREFDYVINDLTAVPISTSPEDSTWEFLRLILD
LSMKVLKQDGKYFTQGNCVNLTEALSLEYEQLGRLYCPVEFSKEIVCVPSYLELWVFYTVWKKAKP

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FIGURE 6142

GTCAGCCAGTCAGTCCGCCAGTCCGCCAGCCAGTACCTCTCTCTCCTCGGCCCTCGTAAGCTGTCCGCGGTCTG
TTTGGCCCGAACGGCGGCGGAGGCGCTGATCATGGCGACATTTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGT
GGACCTGGCCAAGCCGCTGGTGAAGTTTCATCCAGCAGACTTACCCAGCGGCGGGGAAGAGCAGGCCCAGTACTG
CCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCGGTGTCCGCTGGACAAGCACGAGGGCGCGCT
CGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCCAAATTCCTATTTCTGAAAATCAGATCTG
CTTGACATTTACCTGGAAGGATGCTTTTCGATAAAGGTTCACTTTTGGAGGCTCTGTAAAACCTGGCTCTTGCAAG
CTTAGGATATGAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAGAACCT
GGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGTCTAGTGGTGCCTTTTACATATTAAGA
GACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACTGTTGGGACCCTCAGTCTTAT
TATGCTGGCACAGGCTCAAGAAGTATTTTTTTTAAAGCCACAAGAGATAAAATGAAAGATGCCATCATAGCTAA
ATTGGCTAATCAGGCTGCAGATTATTTTGGTGATGCTTTCAAACAGTGTCAATACAAAGATACTCTCCCCAAGGA
GGTGTTCCTGTCTTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTACCATCAGTCTATCTTGGCAAA
ACAGCAGAAGAAATTTGGAGAAGAAATTGCAAGGTTACAGCATGCAGCAGAACTGATTAAGACAGTGGCATCTCG
CTATGATGAATATGTTAATGTGAAGGATTTTTCTGACAAAATCAATCGTGCCCTTGCTGCAGCAAAGAAGGATAA
TGACTTCATTTATCATGATCGAGTTCCAGACCTTAAAGATCTAGATCCTATTGGCAAAGCCACACTTGTGAAATC
TACCCCGGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATGGTTCCTGTGTCAGTACAGCA
GTCITTTGGCTGCCTATAATCAGAGGAAAGCCGATTGGTTAAACAGATCAATTGCTCAGATGAGAGAAGCCACCAC
TTTGGCAAATGGGGTGCTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTGTCTGGAGACACTGTACCTCA
GTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTTGATCAGTTGATTAAAGAACT
GCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAAGGTTGTTGGATGAAGAAGAAGCAACCGA
TAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAACGTGATAAGCCTTTAAGAGC
AGAGGGAACCACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAAGTGAAAGAATGTTACCAGTC
TCATCGTGACACCATCGTGCTTTTGTGTAAGCCAGAGCCTGAGCTGAATGCTGCCATCCCTTCTGCTAATCCAGC
AAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAAATCCTTATTGTCAAATCTTGATGAAGTAAAGAAGGA
AAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAGTTTTTGACAGCCCTGGCTCA
AGATGGTGTGATAAATGAAGAAGCTCTTTCTGTTACTGAACTAGATCGAGTCTATGGAGGTCTTACAACATAAGT
CCAAGAATCTCTAAAGAAACAGGAGGGACTTCTTAAAAATATTAGGTCTCACATCAGGAATTTTCAAAAATGAA
ACAATCTAATAATGAAGCTAACTTAAGAGAAGAAGTTTTGAAGAATTTAGCTACTGCATATGACAACCTTTGTTGA
ACTTGTAGCTAATTTGAAGGAAGGCACAAAGTTTTACAATGAGTTGACTGAAATCCTGGTCAGGTTCCAGAACAA
ATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAACCTCTTAAAGGACTTGCAACAAAGCATTGCCAG
AGAACCTAGTGCTCGTACAATTCCTACACCTGCGTATCAGTCCTCACCAGCAGGAGGACATGCACCACTCCTCCA
ACTCCAGCGCCAAGAACCATGCCGCCTACTAAGCCCCAGCCCCAGCCAGGCXTCCACCACCTGTGTTTCCAGCA
AATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCGCCAGCTCCATCACAAACGCCT
GGCTCAGCTCCTCCTCCACAGGCGCAGGGACCACCTATTXCCCCCTATCCAGGATATCCTGGGTATTGCCAAAT
GCCCATGCCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATATCCACCAGTGTATCACCAGAG
TCCTGGACAGGCTCCATACCCGGGACCCAGCAGCCTTCATACCCCTTCCCTCAGCCCCACAGCAGTCTTACTA
TCCACAGCAGTAATATGTCTGCTCAGCAGCTCAGCTGATTAGATCAGAGGGAAGAAATACCAACCCTGCAATA
AGTGTACTAACTCTACGCTCTGGTTAATGTAATGTACTCTCCTGGACTGAATGCAGTGTATAATTTCTGTCTAC
AGCTAGAAGCTGTGCCCCAGTTCCACATTTGATTACACATGTGAGATTGCTGCTGTTGCAGTATAAACACTAGG
TATAATAGGATTTGAAATTGCATTACAGTTTCAAAAAATTGAAAATGAGAAATTAACCTGCAAGTGAAACATTT
GAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAGATGGTTTAAAGTATGGATACT
AGAGAAAATTAAGTTTTCTTCTTTTGGTTTATTGATTGGTTTAAATTTCCATTATGCTATTTTGCATAATCAA
GGCACTGTAAATCTTATAATTTTAAATAAATTACTTAAGAACAGTTGTCATTGTTATGTTTTGTTATTGATTCT
CATTACTGTCTAATTTTTTTTCTGGTATTAGTCTCATTGTTGATGATATAAGTTAAACAGATACTGTTTTTAAG
TGCATGAATAGTACAAGTTATTATCAAGGATGTTTTACAGGGAATCAAAAGAATATTATCATACTTTATCTTTC
GTATGCTGATTAGTAAACGATTTTGTACATTTATTTAGAAAGTCTATAATGTGGAAGAAACAAACAGTTGCTA
CCAAAGATTCTTCAATAAACATACAAATAAATGTGTATATTTAATGTTTTATTGTTAGCTTCTCCAGAAAATTG
ATGCAAATTCGGTAATAATCTTGCATTTTTTCCCCAATAACCTGGTTAAATAGAAATACGCCAT

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FIGURE 6143

TTTCCTTCCTCTTTTGGCAACATGGCGGGCGGAGAAGCTGGAGTGA CTCTAGGGCAGCCGCATCTTTCGCGTCAG
GATCTCACCACCTTGGATGTTACCAAGTTGACGCCACTTTCACACGAAGTTATCAGCAGACAAGCCACAATTAAC
ATAGGTACAATTGGTCATGTAGCTCATGGGAAATCCACAGTCGTCAAAGCTATTTCTGGAGTTCATACTGTCAGG
TTCAAAAATGAAGTAGAAAAGAAATATTACAATCAAGCTTGGATAIGCTAATGCTAAGATTTATAAGCTTGATGAC
CCAAGTTGCCCTCGGCCAGAAATGTTATAGATCTTGTGGGAGCAGTACACCTGACGAGTTTCTACGGACATTCCA
GGGACCAAAGGGAACCTTCAAATTAGTCAGACATGTTTCTTTGTTGACTGTCCTGGCCACGATATTTTGATGGCT
ACTATGCTGAACGGTGCAGCAGTGATGGATGCAGCTCTTCTGTTGATAGCTGGTAATGAATCTTGCCCTCAGCCT
CAGACATCGGAACACCTGGCTGCTATAGAGATCATGAACTGAAGCATATTTTGATTCTACAAAATAAAATTGAT
TTGTTAAAAGAAAGTCAGGCTAAAGAACAATACGAGCAGATCCCTTGCAATTTGTCCAAGGTACAGTAGCAGAGGGA
GCTCCCATTTATTTCAATTTTCAGCTCAGCTGAAATACAATATTGAAGTTGTTTGTGAGTACATAGTAAAGAAAATT
CCAGTACCCCCAAGAGACTTTACTTCAGAGCCCCGGCTTATTGTTATTAGATCTTTTGATGTCAACAAACCTGGC
TGTGAAGTTGATGACCTTAAGGGAGGTGTAGCTGGTGGTAGTATCCTAAAAGGAGTATTAAAGGTGGGCCAGGAG
ATAGAAGTAAGACCTGGTATTGTTTCCAAAGATAGTGAAGGAAAACCTCATGTGTAAACCAATCTTTTCCAAAATT
GTATCACTTTTTTGCGGAGCATAATGATCTGCAATATGCTGCTCCAGGCGGTCTTATTGGAGTTGGAACAAAAATT
GACCCCACTTTGTGCGGGCTGACAGAAATGGTGGGGCAAGTACTTGGTGCAGTCGGAGCTTTACCTGAGATATTC
ACAGAAATTGGAAATTTCTATTTCTGCTTAGACGGCTTCTAGGTGTACGCACTGAAGGAGACAAGAAAGCAGCA
AAGGTTCAAAAGCTGTCTAAGAATGAAGTGCTCATGGTGAACATAGGATCCCTGTCAACAGGAGGGAGAGTTAGT
GCTGTCAAGGCCGATTGGGTAATAATTGTTTGACCAATCCAGTGTGCACAGAGGTAGGAGAAAAAATTGCCCTT
AGCCGAAGAGTTGAAAAACACTGGCGTTAATTGGTTGGGGTCAGATAAGAAGAGGAGTGACAATCAAGCCAACA
GTAGATGATGACTGAAGAATACCAGTTAAATAATACATTGGATGGATTGGAAGTTGGAATTCCTCTTAACAAC
CAAGGGGTTTATTTTCAAAGCAATATTGGGGAATTGATTTACAGTTCGTTACCTTAGTAGGTAACGGTAAGGTT
ATTCTCTTTTTTTTTTTTTTTGGTTAIGAAAACCTTAGGGACTAAAATTAATATAAAAAATTGGCATAATGTTGGAT
TGAATCTACATTTTGGCAGAAGTTAAACATTCCCACATAATGTCAAAATTATACATCATGCAGTCTGTTTTTTT
GTTTGTTAATTTTGTGTTTTGTGTTTGTAGTCTGGCTCTGTCAACCAGGCTGGAGTGCAGTGGCGTGATCTGCAACC
TCTGCCCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACA
CTTGGCTAATTTTTGTATTATTAGTAGAGACGGGGTTTCAGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAGG
GTGATCAGCCACCTCGGCCTCACAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCCAGCCACATCATAACA
GTTTGAAATGAACTTTGCCACAACCAGCCTTGCTGTAGCACACACATATATCACTGAACCTGTTTGAAATAAA
GTTTTTTTTCTTTTTCATGATTGCTCTTTGAGTACCTCCAGGCTGAAAGACTGTTGTACCAGTAAAACTTAAAG
GCACAAATCTCCTTGAAGACCTTCTCCCTTTATGTGGCCCCATATTTTATGTGCTTTATCTTTGAAATTTTG
CATGAAAAGGAAATGAATGGATTGCAATGAAATTGTCCTTTAGAGCATGATTACTTGTTCCTGACAAATATT
TTTCTCCCTTGCTCTTCTGGCCTGAAACACGGGAAACCAGAGTCAAAAGTTATCTCCCTCTCCCTGTGATGCC
TTGAGATTTTTTCTGCGTTGTTTAAATGCCTGAAATCCAAGTCTTCTCCATGGGAAAATACTGTTATACCAAAT
AATTCTAGATGAGTAACAAAGATCTTTTAGGCCTTCATTTTATGTTTTTCTTAAGTGTATATTATGATTGTG
ACATAGATTATACTACTACTAATTTTGGATGTTTCAAAAGGTCAAGAAGTAAAGATGTTAGAAAGCAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6144

MAGGEAGVTLGQPHLSRQDLTTLDVTKLTPLSHEVISRQATINIGTIGHVAHGKSTVVKAISGVHTVRFKNELER
NITIKLGYANAKIYKLDDPSCPRPECYRSCGSSTPDEFPTDIPGTKGNFKLVRHVSFVDCPGHDILMATMLNGAA
VMDAALLLIAGNESCPQPQTSEHLAAIEIMKIKHILILQNKIDLVKESQAKEQYEQILAFVQGTVAEGAPIIPIS
AQLKYNIEVVCEYIVKKIPVPPRDFITSEPRLIVIRSFVNKPGCEVDDLKGGVAGGSILKGVLVGQEIIEVRPGI
VSKDSEGKLMCKPIFSKIVSLFAEHNDLQYAAPGGLIGVGTKIDPTLCRADRMVGQVLGAVGALPEIFTELEISY
FLLRRLLGVRTEGDKKAAKVQKLSKNEVLMVNIGSLSTGGRVSAVKADLGKIVLTNPVCTEVGEKIALSRVEKH
WRLIGWGQIRRGVTIKPTVDDD

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FIGURE 6145

CTCTCTCCGGTCTGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTTCGTGCACTAAATGTGCCCGATGCGTGCCCAAGGACAAGGCCATTAAAGAAATTCGTCAATTCGA
AACATAGTGGAGGCCGAGCAATCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 6146

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCAGAGACCTGAAAAGCCCCGCCGGCC
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAG
TATTTGAAGCCGTGTCCAGCCCAGTGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTT
ACGAAAAGGAAAAGGCCAGCCTGCCAGGAGTGAAGAAAGCTTTGGGCAAGTATGGTCCTGCCGATGTGGAAGACA
CTACAGGAAGTGGAGCTACAGATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAA
GTGAAGAAGCAAAGAGGCTAAGGGAAGAACGTCTTGACAATATGAATCAAAGAAAGCCAATGATGAGACAGATA
TGGCGAAATTAGAGGAGCGCGTCAGAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCAG
TGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTCGGAACAGATATGCTGGAGG
AGCAGATCACTGCTTTTGAGGACTACGTGCAGTCCATGGATGTGGCTGCTTTCAACAAGATCTAAAATCCATCCT
GGATCATG

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FIGURE 6147

ATCCTGACTTCCGCTTTGGAGGCGAGGACCCGAGCGAGTGTAGGGGGTGCGGCGTCTGGTCAGCCAGGGGTGAAT
TCTCAGGACTGGTCGGCAGTCAAGCCATCATGCTCGTGCTCAGAAGAGTAAGCTCCGTGCCCCGTGAGAAACGCC
GCAAGGCCCCGAGATGAGACCCGGGGTCTCAATGTTCTCAGGTCACTGAAGCAGAGGAAGAAGAGGCCCCCTGCT
GTTCTCTTCTGTTTCTGGGGGTGCTGCTTCAAGCTCTCTGCTGCTGGCATTCCCCAGAAGCCTCAGAGAGCCC
CAACCACTGCCGCTGCTGCGGCTGCGGGTGTTCATCCACAAAATCTAAAAAAGTGCCAAGAGCCACCAAGGTG
AGAAAAATGCAAGTTCCTCCCAGGCCTCAACATCCACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAAGTCAG
GGTCGTTGGTGAGTTCCTGTTGTACAGTATAAAATAAAAAAGTCCGTTACAAAGGGAGAAATGCTGAAAATG
TTGGCAAAGGTTTCAAGGAGCACTTCCCTGAGATCCTCAAGAAAGCCTCTGAGGGCCTCAGTGTGTCTTTGGCC
TTGAGCTGAATAAAGTCAACCCCAACGGCCACACTTACACCTTCATCGACAAGGTAGACCTCACTGATGAGGAAT
CCCTGCTCAGTTCCTGGGACTTTCCAGGAGAAAGCTTCTGATGCCTCTCCTGGGTGTGATCTTCTTAAATGGCA
ACTCAGCTACTGAGGAAGAGATCTGGGAATTCTGAATATGTTGGGAGTCTATGATGGAGAGGAGCACTCAGTCT
TTGGGGAACCCCTGGAAGCTCATCACCAAGATCTGGTGCAAGGAAAAATATCTGGAGTACAAGCAGGTGCCCAGCA
GTGATCCCCCAGCTTTCAATTCTGTGGGGTCCGAGAGCCTATGCTGAAACCAGCAAGATGAAAGTCTCTGGAGT
TTTTGGCCAAGGTAAATGGTACCACCCCTGTGCCTTCCCAACCCATTACGAAGAAGCTTTGAAAGATGAAGAGA
AAGCCGGAGTCTGAGCCAGAGTTGTAGCCAGGCCTTGCACTACTGCCATAGCCAATCAATCTCCCAAAGCCAAGT
TTACCTGCTGTTCTCACCCCAATGAGGTCTTAGGCAGATTCTTTACTTTGTAATTCAAAGGCTGTAAACCTT
TGTTCTTGTATGATGAATAACTTGTGACTTTTTTTTTTCTCTTTTCACTAGTGTTCACAGGTTTATT
TAGATTGAGAAATGTAATTTACAAATGATATAGATCACCTGTTATTGCTGTTTTTCAGGGACAGTAGAAAGTGT
TTTGTTTTTTGAGTGAAACAACCTTATTAATAAAAAATCCTTAAATCACTTTTGTAATCCAGGACAAGAAAAATGTGG
CATTAGAGTAGAAATATCTTTGGAAATGTGAAGACCCCATAGTGAAATATTTGGGATCAGAAGCCAGAGGTGTA
AAAGTGGTCAATTCTTGGTTTACTTCATTTAATCTTTCTTTTCATAAAGATACATACCTGGATTTGTTTATGTTA
TTCAAGAATGTGTGAGAAATTAAACCATAGTTAGTTAA

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FIGURE 6148

MPRGQKSKLRAREKRRKARDETRGLNVPQVTEAAAAEAPCCSSSVSGGAASSSPAAGIPQKPQRAPTAAAAAG
VSSTKSKKGAKSHQGEKNASSSQASTSTKSPSEDPLTRKSGSLVQFLLYKYKIKKSVTKGEMLKIVGKRFRFHFP
EILKKASEGLSVVFGLELNKVNPNNGHTYTFIDKVDLTDEESLLSSWDFPRKLLMPLLGVIFLNGNSATEEEIWE
FLNMLGVYDGEESHVFGEPWKLITKDLVQEKYLEYKQVSSDPPRFQFLWGPRAYAETSKMKVLEFLAKVNGTTP
CAFPTHYEEALKDEEKAGV

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FIGURE 6149

CTCCTCTAGCCGCCGCGCGGAAGCGCTGAGTCACGGTGAGGCGACTGGACCCACACTCTCTTAACCTGCCCTC
CCTGCACTCGCTCCCGGCGGCTCTTCGCGTCACCCCGCCGCTAAGGCTCCAGGTGCCGCTACCGCAGCGTGAGT
ACCTGGGGTCTCTGCAGGGGTCCACTAGCCCTCCATCCTCTACAGCTCAGCATCAGAACACTCTCTTTTTAGACT
CCGATATGGGGTCTCTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGGTGGAGCGAGGG
TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAATCTGGATCCGTTTTTACTGTTTGATGAATTTAAAGGAGGTA
GACCAGGAGGATTTCTGATCATCCACATCGAGGTTTTGAAACAGTATCCTACCTCCTGGAAGGGGGCAGCATGG
CCCATGAAGACTTCTGTGGACACACTGGTAAATGAACCCAGGAGATTTGCAGTGGATGACTGCGGGCCGGGGCA
TTCTGCACGCTGAGATGCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACCTGTGGGTAAATTTGAGGAGCTCAG
AGAAGATGGTGGAGCCTCAGTACCAGGAAGTGAAGAAATCCCTAAACCCAGTAAGGATGGTGTGACAG
TTGCTGTCTATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTTACACTCGCACACCAACCTTATATTTGGACT
TCAAATTGGACCCAGGAGCCAAACATTCCCAACCTATCCCTAAAGGGTGGACAAGCTTCATTTACACGATATCTG
GAGATGTGTATATTGGGCCCAGATGATGCACAACAAAAATAGAACCCTCATCACACAGCAGTGCTTGGAGAAGGTG
ACAGTGTCCAGGTGGAGAACAAGGATCCCAAGAGAAGCCACTTTGTCTTAATTGCTGGGGAGCCATTAAAGAGAAC
CAGTTATCCAACATGGTCCATTTGTGATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTAGAAACG
CAAAAAATGGGTTTGAAAGGGCCAAAACCTGGAAATCAAAGATTGGGAAGTGTGGAAAGCGGAAGAGCAGGTCT
TGATGTGTCCTAGAATTTTGCCATTTCTGAGATTGAGCCATTGAAGGCATTCCATTTCTAAAGCTTATTTAGCCG
GTGCTTCTAAAGAATTCACACTAACGTGATAACATGGTTTTTGTAAACAATAATGTAGGATATTTCTGGCACA
TGCAAATAAACCTAATCATTGTTTCTTTAAAAA

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FIGURE 6150

MGSSKKVTL SVLSREQSEG VGARVRRSIGRPELKNLDPFLLFDEFKGGRPGGFPDHPHRGFETVSYLLEGGSMAH
EDFCGHTGKMNP GDLQWMTAGRGILHAEMPCSEEP AHGLQLWVNLR SSEKMVEPQYQELKSEEIPKPSKDGVTVA
VISGEALGIKSKVYTRTPTLYLDFKLDPGAKHSQPIPKGWTSFIY TISGDVYIGPDDAQQKIEPHHTAVLGE GDS
VQVENKDPKRSHFVLIAGEPLREPVIQHGP FVMNTNEEISQA ILDFRNAKNGFERAKTWKSKIGN

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FIGURE 6151

CTCTCTGCTCCTCCTGTTCTACAGTCAGCCGCATCTTCTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACC
ATGGGGAAGGTGAAGGTCGGAGTCAACAGATTGGTTCGTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCT
GGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTGAACTACATGGTTTACATGTTCCAAATATGAC
TCCACCCATAGCAAATTCCATGGCACCCTCAAGGCTGAGAATGGGAAGCTTGTTCATCAATGGAAATCCCATCACC
ATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTTCATGGAGTCCACTGGC
GTCTTACCACCATGTAGAAGGCTGGGCCTCATTGTCAGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCT
GCTGATGCCCAATGTTTGTTCATGGGTGTGAACCATGAGAAGTATGACAACAACCTCAAGATTGTCGGCAGTGCC
TTCTGCACCACCAACTGCTTAGCACCCCTGGCCAAGGTCATCCATGACAACCTTTGGTATCGTGAAGGACTCATG
ACCATAGTCCACGCCATCACTGCCACCCAGAAGACTGTGGATGGCCCCCTCCGGGAAACTGTGGCGTGATGGCCAC
GGGGCTCTCCAGAACATCATCCCTGCCTCTACTGGCACTGCGAAGGCTATGGGCAAGGTCATCCCTGAGCTGAAC
GGGAAGCTCACTGGCATGGCCTTCTGTGTCCCCACTGCCGTGTGTCAGTGGTGGACCTGACCTGCCGTCTGGAAAAA
CCTGCCAAATATGATGACACCAAGAAGGTGGTGAAGCAGGCATCGGAGGGCCCCCTCAAGGGCATCCTGGGCTAC
ACTGAGCACCAGGTGGTCTCCTCCGACTTCAACAGCAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCAAT
GCCCTCAACAACCACTTTTTCAAGCTCATTTCCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGAC
CTCATGGCCCATGTCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAG
AGACCCTCACTGCTGGGGAGTCCCTGCCACACTCAGTCCCCCACCACACTGAATCTCCCTCCTACAGTTTCCA
TGTAGACCCCTTGAAGAGGGGAGGGGCCTAGGGAGCCCCACCTTGTCATATACCATCAATAAAGTACCCTGTGCT
CAGCC

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FIGURE 6152

CTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACCATGGGGAAGGTGAAGGTCGGAGTCAACAGATTGGTC
GTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCA
TTGACCTGAACTACATGGTTTACATGTTCCAATATGACTCCACCCATAGCAAATTCCATGGCACC GTCAAGGCTG
AGAATGGGAAGCTTGTCAATGGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAATCAAGTGGG
GCGATGCTGGCGCTGAGTACGTCATGGAGTCCACTGGCGTCTTACCACCATGTAGAAGGCTGGGCCTCATTTC
AGGGGGGAGCCAAAGGGTCATCATCTCTGCCCCCTCTGCTGATGCCCCAATGTTTGTCAATGGGTGTGAACCATG
AGAAGTATGACAACAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCATTGCCCTCAACAACCACTTTTTCA
AGCTCATTTCCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGACCTCATGGCCCACATGGCCTCCA
AGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAGAGACC

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FIGURE 6153A

CCTCTGCCACCAATGGGGAACTGGGCTGTGAATGAGGGCTCTCCATTTTGTCAATTCTGGTTTGGCTGGGGTTGA
ACGCTTTCCTCTTTGTCTGGTATTACCGGGTTTATGATATTCCACCTAAGTTCTTTTACACAAGAAAACCTTCTTG
GGTCAGCACTGGCACTGGCCAGGGCCCCCTGCAGCCTGCCTGAATTTCACTGCATGCTGATTCTCTTGCCAGTCT
GTCGAAATCTGCTGTCTTCTCAGGGGTTCCAGTGCGTGCTGCTCAACAAGAGTTCTGAAGACAACCTGGACAGGA
ATCTCACCTTTTCATAAAATGGTGGCATGGATGATTGCACTTCACTCTGCGATTACACCATTCACATCTATTTA
ATGTGGAATGGTGTGTGAATGCCCAGTCAATAATTCTGATCCTTATTAGTAGCACTCTCTGAACCTGGAGACA
GGCAAAATGAAAGTTATCTCAATTTTGTCTGAAAGAGAAATAAAGAACCCTGAAGGAGGCCTGTACCTGGCTGTGA
CCCTGTTGGCAGGCATCACTGGAGTTGTCATCACGCTGTGCCTCATATTAATTATCACTTCTCCACCAAAACCA
TCCGGAGGTCTTACTTTGAAGTCTTTTGGTACACACATCATCTCTTTGTGATCTTCTTCATTGGCCTTGCCATCC
ATGGAGCTGAACGAATTGTACGTGGGCAGACCGCAGAGAGTTTGGCTGTGCATAATATAACAGTTTGTGAACAAA
AAATCTCAGAATGGGGAAAAATAAAGGAATGCCCAATCCCTCAGTTTGTCTGGAAACCCTCCTATGACTTGGAAAT
GGATAGTGGGTCCCAGTTTCTGTATCTCTGTGAGAGTTGGTGCGGTTTGGCGATCTCAACAGAAGGTGGTCA
TCACCAAGGTGGTCACTCACCTTTTCAAACCATCGAGCTACAGATGAAGAAGAAGGGGTTCAAATGGAAGTGG
GACAATACATTTTGTCAAGTGGCCAAAGGTGTCCAAGCTGGAGTGGCACCCTTTTACACTGACATCCGCCCTTG
AGGAAGACTTCTTTAGTATCCATATCCGCATCGTTGGGGACTGGACAGAGGGGCTGTTCAATGCTTGTGGCTGTG
ATAAGCAGGAGTTTCAAGATGCGTGGAACTACCTAAGATAGCGGTTGATGGGCCCTTTGGCACTGCCAGTGAAG
ATGTGTTCACTATGAGGTGGTGTATGTTAGTGGGAGCAGGGATTGGGGTCACACCCTTCGCATCCATTCTCAAGT
CAGTCTGGTACAAATATTGCAATAACGCCACCAATCTGAAGCTCAAAAAGATCTACTTCTACTGGCTGTGCCGGG
ACACACATGCCTTTGAGTGGTTTGCAGATCTGCTGCAACTGCTGGAGAGCCAGATGCAGGAAAGGAACAATGCCG
GCTTCTCAGCTACAACATCTACCTCACTGGCTGGGATGAGTCTCAGGCCAATCACTTTGCTGTGCACCATGATG
AGGAGAAAGATGTGATCACAGGCCTGAAACAAAAGACTTTGTATGGACGGCCCACTGGGATAATGAATTCAAGA
CAATTGCAAGTCAACACCCTAATACCAGAATAGGAGTTTCTCTGTGGACCTGAAGCCTTGGCTGAAACCCTGA
GTAAACAAAGCATCTCCAATCTGAGTCTGGCCCTCGGGGAGTGCATTTCATTTTCAACAAGGAAAACCTTCTAAG
TTGTCTCTTCCATGAGGAAATAAATGTGGGTTGTGCTGCCAAATGCTCAAATAATGCTAATTGATAATATAAATA
CCCCCTGCTTAAAAATGGACAAAAAGAACTATAATGTAATGGTTTTCCCTTAAAGGAATGTCAAAGATTGTTTG
ATAGTGATAAGTTACATTTATGTGGAGCTCTATGGTTTTGAGAGCACTTTTACAAACATTATTTCAATTTTTTCC
TCTCAGTAATGTCTAGTGAAGTTAGGGAAAAGATTCTTGGACTCAATTTTGAATCAAAAGGGAAAGGATCAAAA
GGTTCACTAATCTCCCTAAGATTATGAACTGTGACCAGATCTAGCCCATCTTACTCCAGTTTGATACTCTTTC
CACAATACTGAGCTGCCCTCAGAATCCTCAAATCAGTTTATATTCCCCAAAAGAAGAAGGAAACCAAGGAGTA
GCTATATATTTCTACTTTGTGTCAATTTTGCCATCATTATATCATACTGAAGGAAATTTCCAGATCATAGGA
CATAATACATGTTGAGAGTGTCTCAACACTTATTAGTGACAGTATTGACATCTGAGCATACTCCAGTTTACTAAT
ACAGCAGGGTAACCTGGCCAGATGTTCTTTCTACAGAAGAATATTGGATTGATTGGAGTTAATGTAATACTCATC
ATTTACCACTGTGCTTGGCAGAGAGCGGATACTCAAGTAAGTTTGTAAATGAATGAATGAATTTAGAACCACA
CAATGCCAAGATAGAATTAATTTAAAGCCTTAAACAAAATTTATCTAAAGAAATAAATTCTATTACTGTCTATAGA
CCAAAGGAATCTGATTCTCCCTAGGGTCAAGAACAGGCTAAGGATACTAACCAATAGGATTGCCTGAAGGGTCT
GCACATTCTTATTTGAAGCATGAAAAAGAGGGTTGGAGGTGGAGAATTAACCTCCTGCCATGACTCTGGCTCAT
CTAGTCTGCTCCTTGTGCTATAAAATAAATGCAGACTAATTTCTGCCCCAAGTGGTCTTCTCCAGCTAGCCCT
TATGAATATTGAACCTTAGGAATTGTGACAAATATGTATCTGATATGGTCATTGTTTTTAAATAACACCCACCCCT
TATTTTCCGTAAATACACACACAAAATGGATCGCATCTGTGTACTAATGGTTTATTTGTATTATATCATCATCA
TCATCTTAAATTAACAACCCAGAAACAAAATCTCTATACAGAGATCAAATTCACACTCAATAGTATGTTCTGA
ATATATGTTCAAGAGAGAGTCTCTAAATCACTGTTAGTGTGGCCAAGAGCAGGGTTTTCTTTTGTCTTTAGAAC
TGCTCCCATTTCTGGGAACATAAACAGTTTATTTGCCCCACCCCTTGGAGCCACAAATGTTTGAAGTCTTCA
ACTTCGGTAATGAGGAAGAAGGAGAGCTGGGGGAAGGCAGAGACTGGTTTAGGAGGAAAAGGAAATAAG
GAGAAAAGAGAATGGGAGAGTGAGAGAAAAATAAAAAGGCAAAAGGGAGAGAGGGGAAGGGGTCTCATATTG
GTCATTTCCCTGCCCCAGATTCTTAAAGTTTGATATGATAGAATATAATTGAAGGAGGTATACACATATTGATG
TTGTTTTGATTATCTATGATTGAATCTTTTAAATCTGGTCACAAATTTGATGCTGAGGGGATTATTCAAG
GGACTAGGATGAACATAAAGAACTCAGTTGTTCTTTGTCACTACTATTCTTTTCTGCTCTCCAGAAATCCTCA
GGGCACTGAGGGTAGGTCTGACAAATAAGGCCTGCTGTGCAATATAGCCTTCTGAAATGTACCAGGATGGTTT

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FIGURE 6153B

CTGCTTAGAGACACTTAGGTCCAGCCTGTTTCACACTGCACCTCAGGTATCAATTCATCTATTCAACAGATATTTA
TTGTGTTATTACTATGAGTCAGGCTCTGTTTATTGTTTCAATTCCTTACACCAAAGTATGAACTGGAGAGGGTAC
CTCAGTTATAAGGAGTCTGAGAATATTGGCCCTTTCTAACCTATGTGCATAATTAAAACCAGCTTCATTGTGTC
TCCGAGAGTGTTTTCTCCAAGGTTTTCTATCTTCAAACCAACTAAGTTATGAAAGTAGAGAGATCTGCCCTGTGT
TATCCAGTTATGAGATAAAAAATGAATATAAGAGTGCTTGTCATTATAAAAGTTTCCTTTTTTATTCTCTCAAGC
CACCAGCTGCCAGCCACCAGCAGCCAGCTGCCAGCCTAGCTTTTTTTTTTTTTTTTTTTTTTTAGCACTTAGTAT
TTAGCATTTATTAAACAGGTACTCTAAGAATGATGAAGCATTGTTTTTAATCTTAAGACTATGAAGGTTTTCTTA
GTTCTTCIGCTTTTGCAATTGTGTTGTGAAATTTGAATACTTGCAGGCTTTGTATGTGAATAATTCTAGCGGGG
GACCTGGGAGATAATTCCTACGGGAATTCTTAAACTGTGCTCAACTATTAAATGAATGAGCTTTC

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FIGURE 6154

MGNWAVNEGLSIFVILVWLGLNVFLFVWYYRVYDIPPKFFYTRKLLGSALALARAPAAACLNFCMLILLPVCNRL
LSFLRGSSACCSTRVRRQLDRNLTFHKMVAWMIALHSAHTIAHLFNVEWCVNARVNNSDPYSVALSELGDRQNE
SYLNFARKRIKNPEGGLYLAVTLLAGITGVVITLCLILIIITSSTKTIRRSYFEVFWYTHHLFVIFFIGLAIHGAE
RIVRGQTAESLAVHNITVCEQKISEWGKIKECPIQFAGNPPMTWKWIVGPMFLYLCELRVRFWRSQQKVVTIKV
VTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSLEWHPFTLTSAPPEEDFFSIHIRIVGDWTEGLFNACGCDKQE
FQDAWKLPKIAVDGPPFGTASEDVFSYEVVMLVGAGIGVTPFASILKSVWYKYCANNATNLKLKKIYFYWLCDTHA
FEWFADLLQLLESQMQRNAGFLSYNIYLTGWDESQANHFVHHDEEKDVITGLKQKTLYGRPNWDNEFKTIAS
QHPNTRIGVFLCGPEALAEATLSKQSSISNSESGRGVHFIKFNENF

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FIGURE 6155

AAAACACCAAATGGCGGATGACGCCGGTGCAGCGAGGAGGGTCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACC
GCGGTGGCTTCCGCGGAGGTTTTCGGCAGTGGCATCCGGGGCCGGGGTTCGCGCCGTGGACGGGGCCGGGGCCGAG
GCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCCGCACCAAGTTGGGCCGCTTGGTCAAGG
ACATGAAGATCAAGTCCCTGGAGGAGATATATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGACTTTT
GCTTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGATCCGTGCCGGCCAGCGCA
CCAGGTTCAAGGCGTTTGTGCTATCGGGGACTACAATGCCACGTCGGTCTGGGTGTTAAGTGTTCCAAGGAGG
TGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATTGTCCCCGTGCGCAGAGGCTACTGGAGGA
ACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCC
CTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTTATGATGGCTGGTATCGATGACT
GCTACACCTCAGCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGA
CCTACAGCTACCTGACCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTGACC
ACCTCGTCAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTT
ACACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 6156

MPVTKLGRVLKDMKIKSLEEIYLFSLPIKESEIIDFCLGASLKDEVLKIMPVQKQIRAGQRTREKAFVAIGDYNG
HVGLGVKCSKEVATAIRGAIILAKLSIVPVRRGYWRNKIGKPHTVPCKVTGRCGSVLVRLIPAPRGTGIVSAPVP
KKLLMMAGIDDCYTSARGCTATLGNFAKATFDAISKTYSLTPDLWKETVFTKSPYQEFTDHLVKTHTRVSVQRT
QAPAVATT

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FIGURE 6157

GAACATCCAGTCATGGATAAAAAATGAGCTGGTTTCTGAGAGGCCAACTGGCCGAGCAGGCTGAGCGATATGATGAC
ATGGCAGCCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTT
GCTTATAAAAAATGTTTTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAAGGT
GCTGAGAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAGTTGATACGGAGCTAAGAGATATCTGCAATGAT
GTACTGTTTTCTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTGAAAATG
AAAGGAGATTACTACCATTACTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAGGGATTGTGGATCAGTCACAA
CAAGCATACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGTCTGGCC
CTTAACCTTCTGTGTCTTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTT
GATGAAGCCATTGCTGAACCTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTG
AGAGACAACCTTGACATTGTGGACATCAGATACCCAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAAATTAA
CCGGCCCTTCCAACCTTTTGTGTGCCTCATTCTAAAATTTACACAGTAGACCATTTGTCTATCCATGCTGTCCCACAA
AGTTTTTTTATTACGATTTATGACAGGTTTATGTTACTTCTATTTGAATTTCTATGTTTCCCATGTGGTTTTTCT
GTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTACCTGTTTTCTATCTTGAGGTGGCCAAATAGGG
GATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAGG
GTAAAACCTGCTTCCCTGTCCAAGCAAAGAAAACCTGCCTACATATTGGTTTGTCTGGTGGGGAATAAAAGGGATC
ATTGGTTCAGTCACAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAAAACA
TACCCCATGGATACCACATATTAAACCATGTATATCTGTGGAATACTCAATCTCAATGTGCACACCTTTGACTAC
AACTGCAGAAGTGTTCCTTTAGACAAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTCACATTCC
ATTATTTGTAAAGTTACCTGCTGTTAGCTTTTCATTATTTTTGCTACACTCATTTTTATTGTATCTAAATGTTTTA
GGCAACCTAAGAACAAATGTAAAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCTACTTTCATCTGTAT
CAAGCACAGCAGTAAAACAAAACCCATGTATTTAACTTTTTTTTTTTAGGTTTTTGTGTTTTTTTTT
TTGATACTTGCCTAACATGCATGTGCTGTATAACAATCCAAGCATAATTGTTAAGAACACATGTATTAAATTCAT
GTAAGTGAATAAAAGTTTTATGAATGGACTTTTCACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTTT
GGTTCTGAACTTCTCTAAAGGAAATTGTACATTTTTTGAAATTTATTCCTTATTCCTCTTGGCAGCTAATGGG
CTTTTACCAAGTTTAAACACAAAATTTATCATAACAACAAAATACTACTAATATAACTACTGTTTCCATGTCCC
GTGATCCCTCTCTTCCCTCCCCACCTGAAAAAATGAGTTCCAATTTTTTGGGAGAGGGGAGATTGATTAGAA
AAAAATGTAATATGTTCCATTTAAATTTTGGCGTATGGCATTTCCTAACTTAGGAAGCCACAATGTTCTTGGCC
CGTCATGACATTGGGTAGCATTAACTATAAGTTTTGTGCTTCCAATCACTTTTGGTTTTTAAGAATTTCTTGA
TACTCTTATAGTCTGCCTTCAATTTTGATCCTTTATCTATTTGTGAGGTGCACAAGATTACCTTCTTTTTTAG
CCTTCTGTCTTGTACCAACCATTCCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGATGACCTTTCTGGCTC
CACTCAGTGTCTAAGGCACCCTGCTTCCTTTGCTTGCATCCCACAGACTATTTCCCTCATCCTATTTACTGCAGC
AAATCTCTCCTTAGTTGATGAGATTGTGTTTATCTCCCTTTAAACCCCTGCCTATCCTGAATGGTTTGTCTATTGT
CTGCCTTTAAATCCTTCTCTTTCTCTCTCTGTTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAGCT
CACTTTACAAAATATTTCTCAGTACTTTGCAGAAAACACCAACAAAATGCCATTTTAAAGAGGTATATTTT
TTCTTTTAGAATGTAAGCTCCTCAAGAGCAGGGACAATGTTTTCTGTATGTTCTGTTGTGCCTAGTACACTGTAA
ATGCTCAATAAATATTGATGATGGGAGGCA

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FIGURE 6158

GATGACATGGCAGCCTGCATGAAGTCTGTAACTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC
TCAGTTGCTTATAAAAATGTTTTAGGAGCCCGTAGGTCATCTTGAGGGTTCGCTCTCAAGTATTGAACAAAAGACG
GAAGGTGCTGAGAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAAGTTGATACGGAGCTAAGAGATATCTGC
AATGATGTACTGTTTCTTTTGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTG
AAAATGAAAGGAGATTACTACCATTAAGTCTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGT
TCACAACAAGCATAACCAAGAAGCTTTTGAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGT
CTGGCCCTTAACCTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACA
GCTTTTGATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAA
TTACTGAGAGACAACCTTGACAATGTGGTTTTTCATGTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAG
TTACCTGTTTTTCATCTTGAGGTGGCCAATATGGGATGTGGAATTTTATACAAGTTATAAATGTTTGGCATAGT
ACTTTTGGTACATTGTGGCTTCA

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FIGURE 6159

AGCTGACACAACCAAGACGAGTCTCAGTGTCTAGGGAAGCTTGGGGTTCTGCTCCTTTTACTTCAGGCGAACCTG
AACTTTAATGCAATTTTGAAGCATGCCCTGAATAGATTTCAGTCATTATCAAGTCAAACCTAAAAACGGTGAAAGGT
TGCGACTATTACCAAATAGAAGACAATGAGAAGTCATACCATAACAATGACGACAACCTTCAGTCAGCAGCTGGCC
TTACTCCTCCACAGAATGCGCTTTATAACCAATCATAGCGACCAACCGCCACAAAACCTTCTCAGCAACACCCAAA
TGTTACTACCTGTCCCATGGATGAAAAATTGCTATCTACTGTGTTAACCCATCCTACTCTGTTATTTTCATCGT
GGGACTGGTTGGGAACATAATCGCCCTCTATGTATTTCTGGGTATTCACCGTAAAAGAAATTCCATTCAAATTTA
TCTACTTAACGTAGCCATTGCAGACCTCCTACTCATCTTCTGCCTCCCTTTCCGAATAATGTATCATATTAACCA
AAACAAGTGGACACTAGGTGTGATTCTGTGCAAGGTTGTGGGAACACTGTTTTATATGAACATGTACATTAGCAT
TATTTTGCTTGGATTTCATCAGTTTGGATCGCTATATAAAAAATTAATCGGTCTATACAGCAACGGAAGGCAATAAC
AACCACAAAGTATTTATGTCTGTTGTATAGTATGGATGCTTGTCTTGGTGGATTTCCTAACTATGATTATTTT
AACACTTAAGAAAGGAGGGCATAATCCACAATGTGTTCCATTACAGAGATAAGCATAACGCAAAAGGAGAAGC
CATTTTAACTTCATTCTTGTGGTAATGTTCTGGCTAATTTTCTTACTAATAATCCTTTTCATATATTAAGATTGG
GAAGAATCTATTGAGGATTTCTAAAAGGAGGTCAAAATTTCCCTAATTCCTGGTAAATATGCCACTACAGCTCGTAA
CTCCTTTATTGTACTTATCATTTTTTACTATATGTTTTGTTCCCTATCATGCCTTTTCGATTTCATCTACATTTCTTC
ACAGCTAAATGTATCATCTTGCTACTGGAAAGAAATTGTTACAAAACCAATGAGATCATGCTGGTTCTCTCATC
TTTCAATAGTTTGCTTAGATCCAGTCATGTATTTCTGATGTCCAGTAACATTGCAAAATAATGTGCCAACTTCT
TTTTAGACGATTTCAAGGTGAACCAAGTAGGAGTGAAAGCACTTCAGAATTTAAACCAGGATACTCCCTGCATGA
TACATCTGTGGCAGTGAAAATACAGTCTAGTTCTAAAAGTACTTGAGGTAAACATACTAAATGAATTATATAAT
GCAGCCTCTTAATTCCTTTGAAGAACTAAAAAATTAGGAACAAGTTCTAGCATTTACAAAACCTCAGATCTCAAAG
CTCTGCTTGTATTTGTGATATTTCAATTTGCTTAACTGTAAACCATTTCAAGGTACTATCTTTTAAATCTGTATGT
AAAATCTTTTCAAATACATTTTTTAAGCTAATACTCTTAACATAGATTATGAAGTTAAGTGAAATTTATGGCTCT
AACAGCAAAATAATTAAGTGCCATAGTTTCTCAAGTGACTAAAGTAGTTATTAATCAAGCACTTGATACTAA
TTTGAAGTGTGTTTAAAGTAAATGATTTGGGAAGTACAATGTGTGAGAAAATATATGTTTCAATTTATCATTTTA
AAATCTTGATAATTTGCCACTGTATTCATTTATGCCTAAATCTCTATAACAGATGAAAAGATAATTAATAAAAT
CCTAATTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6160

MRSHTITMTTTSVSSWPYSSHRMRFITNHSDQPPQNF SATPNVTTCPMDEKLLSTVLTTSSVIFIVGLVGNIIA
LYVFLGIHRKRNSIQIYLLNVAIADLLIFCLPFRIMYHINQNKWTLGVILCKVVGTLFYMNMYISIILLGFISL
DRYIKINRSIQQRKAITTKQSIYVCCIVWMLALGGFLTMIILTLKKGHNSTMCFHYRDKHNAKGEAIFNFILVV
MFWLIFLLIILSYIKIGKNLLRISKRRSKFPNSGKYATTARN SFIVLIIFTICFVPYHAFRFIYISSQLNVSSCY
WKEIVHKTNEIMLVLSFNSCLDPVMYFLMSSNIRKIMCQLLFRRFQGEPSRSESTSEFKPGYSLHDTSVAVKIQ
SSSKST

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FIGURE 6161

TTTCCGCGCTACCTACAGAGGGGTCCATATGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAACTTTCAC
AATGTCCGGAGCCCTTGATGTCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCATGCAGCAGGAACCCACTT
AGGCGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGTTTCTGCTGGCAGCTCGTGCTGTTGTTGCCATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCGGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGGTTAC
TGACCCAGGGGCTGACCACCAGCCTCTCACGGAGTCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCAACAACAAGGGAGCTCACTCAGTGGGTTTTGATGTGGTGGATGCTG
GCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCCGTGGACACCCATGGGAGGTCATGCCTGATCTCTACTTC
TACAGAGATCCTGAAGAGATTGAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTTAG
GGTGAATGGACTGCTCCTGCTCCTGAGTTCACTGCCACTCAGCCTGAGGTTGCAGACTTGTCTGAAGGTGTACAG
GTGCCCTCTGTGCCTATTGAGCAGTTCCCTACTGACGACTGGAGCACTCAGCCTGCCACGGAAAAGTGGTCTGCA
GCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGATAGGCTCTT
AAGCAACATGGAAAATGGTTGATGGAAAATAACATCAGTTTCT

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FIGURE 6162

MSGALDVLQMKEEDVLKFHAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKFLLAARAVVAIENPADVS
VISSGNTGQRAVLKFAAATGATPIAGHFTPGFTINQIQAAFREPRLLVVTDPRADHQPLTESSYVNLPTIALCNT
DSPLRYVDIATTRELTQWV

FIGURE 6163

[illegible]

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FIGURE 6164

MMGLSNLSPGPGPSQAVPLPEGLLRQRYREEKLEERRWERLEFLQRKKAFLRHVRRRHRDHMAPYAVGREARIS
PLGDRSQNRFRCECRYCQSHRPNLGIPGESNRAPHPSWETLVQGLSGLTSLGTNQPGPLPEAALQPQETEEK
RQRERQQESKIMFQRLKQWLEEN

GGCACACGAGGTGGTTCGGAGCGCCGACTCCCTTCTCGTCTGCGCCATTTTGAGCTGGTGACTGTGGCCGGCTGGGA
GTAGGCGGCAGTGAGTTTCCCTGGGAGGGCAGCGCGTTTGGCGCTTCTCCCCTCCCCCGATCTGCCTCCAGTCT
CGGACTTGGTTGTTTGC CGCTCCGGCTCAGCTGGGAGAGTTGGAGGAGGTGGCGCGGGCAGAGGTGAT
GTCTGGGAGCCCTTCTTGCAGCCCCGGGCCGAGAAGAGTCCCTGCAGGAAGCATACCCAGGCTGGCAGATCAT
GGTAGCAGCAGCGGGGTGGCTGGGAAGTGAACCGAGCCAGCGGCTGAGGAGGGGCCCCAGCAGCCCCGAAGG
CCCTATCAGGACATGGAGTATGAAAGACGTGGTGGTCTGGTGACAGGACTGGCCGCTATGGAGCCACTGACCGC
TCGCAGGATGATGGTGGGGAGAACCAGCAGCCGAGACCAGCTACCGGGACATGGACTACCGTTTATATCTCTGC
GAGTATGGCAGCCAGGAGGGCAAGCATGACTATGACGACTCATCTGAGGAGCAGAGTGC GGAGGATTCTACGAG
GCCTCCCCGGGCTCCGAGACTCAGCGTAGGCGGGCGGGCGGCACAGGCACAGCCCCACCGGCCCGCCAGGCTTC
CCCCGAGACGGCGACTATCGGGACCAGGACTATCGGACCAGCAAGGGGAGGAGGAGGAGGAGGAGGAGGATGAG
GAGGAGGAGGAGAAGGCCAGTAACATCGTCTATGCTGAGGATGCTGCCACAGGCAGCCACTGAGGATGACATCCGT
GGCCAGCTGCAGTCGCACGGCGTGCAAGCAGGGAGGTTCCGGCTGATGCCGAACAAATCTTCAGGTTCAGAGCCGG
GGCTTCGCCTTCGTGAGTTTGTGACTTGCAGGACGCTACACGATGGATGGAAGCCAATCAGCACTCCCTCAAC
ATCTGGGCCAGAAGGTGTGATGCACTACAGTGACCCCAAGCCCAAGATCAATGAGGACTGGCTGTGCAATAAG
TGTGGCGTCCAGAACTTCAACCGCCGAGAGAAGTGCTTCAAATGTGGCGTGCCCAAGTCAGAGGCAGAGCAGAAG
CTGCCCTTCGCACAGAGGCTGGATCAGCAGACACTGCCACTGGGTGGCCGGGAGCTGAGCCAGGGCCTGCTTCCC
CTGCCGAGCCCTACCAGGCCCAGGGAGTCTGGCCTCCCAAGCCCTGTACAGGGCTCGGAGCCAAGCTCAGAG
AACGCCAATGACACCATCATTTTGC GCAACCTGAACCCACACAGCACCATGGATTCCATCCTGGGGGCCCTGGCA
CCCTACGCGGTGCTGTCTCTCTCAACGTGCGCGTCATAAAGGACAAGCAGACCCAACTGAACCGCGGCTTTGCC
TTCATCCAGCTCTCCACCATCGTGAGGCGAGCCAGCTGCTGCAGATCTTCAGGCCCTGCACCCACCCTCACT
ATCGACGGCAAGACCATCAATGTTGAGTTTGCCAAAGGTTCTAAGAGGGACATGGCCTCCAATGAAGGCAGTCGC
ATCAGTGCTGCCTCTGTGGCCAGCACTGCCATTGCTGCGGCCAGTGGGCCATCTCACAGGCCTCCCAAGGTGGG
GAGGGTACCTGGGCCACCTCCGAGGAGCGCGCGGTGCACTACAGCTACTACCAACAGGATGAGGGCTATGGCAAC
AGCCAGGGCAGAGTCTTCCCTCTATGCCCATGGCTACCTCAAGGGCACCAAGGGCCCTGGCATCACTGGAACC
AAAGGGGATCCCACTGGAGCAGGTCCCGAGGCCTCCCTAGAGCCTGGGGCCGACTCTGTGTGATGCAGGCTTTT
TCTCGCGCCAGCCTGGTGCTGCTCCTGGCATCTACCAACAATCAGCCGAGGCGAGCAGTAGCCAGGGCACTGCT
GCCAACAGCCAGTCTGATACCATCATGTACCCCGCTGTGCTCAAATCTGAGCTCCAGAGCCCTACCCATCCTAGT
TCTGCTCTCCACCGGCTACCAGCCCCACTGCCAGGAATCTACAGCCAGTACCCTGTTCCCGACGCTCTTACC
TACCAGTACGATGAGACCTCCGGCTACTACTATGACCCCCAGACCGGCTCTACTATGACCCCAACTCCCACTAT
TACTACAATGCTCAGAGCCAGCAGTACCTGTACTGGGATGGGGAGAGGCGGACCTATGTTCCCGCCCTGGAGCAG
TCGGCCGACGGACATAAGGAGACAGGGGCACCTCGAAGGAGGGGCAAAGAGAAGAAGGAGAAGCACAAGACCAAG
ACAGCTCAACAGATTGCCAAGGACATGGAACGCTGGGCCCGCAGTCTCAACAAAACAAAAGAAAACCTCAAAAAAT
AGCTTCCAGCTTATCAGCTCCCTGCGAGATGACGAGAGGCGGGAGTCAGCCACTGCAGATGCTGGCTATGCCATC
CTCGAGAAGAAGGGAGCACTAGCCGAGAGACAGCACACCAGCATGGATCTCCCGAAATTGGCCAGTGACGACCGC
CCAAGCCCTCCGCGAGGACTGGTGGCAGCCTACAGCGGGGAGAGTGACAGTGAGGAGGAGCAGGAGCGTGGGGGC
CCTGAGCGGGAGGAGAAGCTCACCGACTGGCAGAAGCTGGCCTGTCTGCTCTGCCGACGCCAGTTCCCCAGCAA
GAGGCGCTCATCCGGCACCAGCAGCTCTCAGGGCTCCACAAGCAAAACCTTGAGATTACCGGCGAGCCCACTTG
TCAGAAAACGAGCTAGAAGCACTAGAGAAGAATGACATGGAGCAAATGAAGTACCGGGACCGTGCAGCTGAACGC
AGAGAAAAGTATGGCATCCCGAGCGGCCAGAGCCCAAGAGGAGGAAGTACGGCGGCATATCCACAGCCTCTGTA
GACTTCGAGCAGCCTACTCGGGACGGGCTGGGCAGTGACAACATTGGCAGTCGGATGCTGCAGGCCATGGGCTGG
AAAGAGGGCAGCGCCTGGGCCGCAAGAAGCAGGGCATTGTAACGCCTATCGAGGCCCAAAACAGGGGTGCGGGGC
TCCGGCCTGGGTGCACGGGGCAGCTCCTACGGGTCACCTCAACCGAGTCTTACAAGGAGACACTGCACAAGACA
ATGGTGACCCGCTTCAACGAGGGCCAGTGGAGCAGCTTCAAGAGCAACTTCTCCACATGTTGGGTGTCCATCCTGG
GGCAGGGAAGGACAGAGTGTGGATGGCTGGGACGGGGCCTTGCTCTTGTGCGCCAGCCCACTCCCCAGCCAGAG
AGGGCTTGACCAAATCAAATTGAGGTGGTGACTTTTGTGGAAAATTGGGCTGGGATCAGCTCCTGTTTGTAAAT
AAAAAGCTGAAAAGTCTGAAAAA

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FIGURE 6166

MEYERRGGRGDRGTGRYGATDRSQDDGGENRSRDHDIRMDYRSYPREYGSQEGKHDYDDSSSEEQSAEDSYEASPG
SETQRRRRRRHRHSPTGPPGFPRDGDYRDQDYRTEQGEEEEEEEEEEEEKASNIVMLRMLPQAATEDDIRGQLQ
SHGVQAREVRLMRNKSSGQSRGFAFVEFSLQDATRWMEANQHSLNILGQVSMHYSDPKPKINEDWLCNKCQVQ
NFKRREKCFKCGVPKSEAEQKLPLGTRLDQOTLPLGGRELSQGLLPLPQPYQAQGVLASQALSQGSEPSSENAND
TIILRNLPNSTMDSILGALAPYAVLSSSNVRVIKDKQTQLNRGFAFIQLSTIVEAAQLLQILQALHPPLTIDGK
TINVEFAKGSKRDMASNEGSRISAASVASTAIAAAQWAISSQASQGGEGTWATSEEPVVDYSYYQQDEGYGNSQGT
ESSLYAHGYLKGTKGPITGTGKDPTGAGPEASLEPGADSVSMQAFSRAQPGAAPGIYQQSAEASSSQGTAANSQ
SYTIMSPAULKSELQSPHTPSSALPPATSPTAQESYSQYPVPDVSTYQYDETSYYYYDPQTGLYDPNSQYYNA
QSQQYLYWDGERRTYVPALEQSADGHKETGAPSKEGKEKKEKHKTAKQIAKDMERWARSLNKQKENFKNSFQP
ISSLRDDERRESATADAGYAILEKKGALAERQHTSMDLPKLASDDRPSPPRGLVAAYSSESDEEEQERGGPERE
EKLTDWQKLACLLCRRQFPKEALIRHQQLSGLHKQNLHRRRAHLENELEALEKNDMEQMKYRDRAAERREKY
GIPEPPEPKRRKYGGISTASVDFEQPTRDGLGSDNIGSRMLQAMGWKEGSGLGRKKQIVTPIEAQTRVRGSGLG
ARGSSYGVSTESYKETLHKTMVTRFNEAQ

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FIGURE 6167

TGGCGGCGGCGCGACCCGGGGAAACCGGCATTGATGTCAGCTCGCCGCTGTCCAAGAAACGTCGCGTGTCCGGGC
CTGATCCAAAGCCGGGTTCTAACTGCTCCCTGCCAGTCCGTGTTGTCCGAAGTCCCTCGGTGCCAACCAACG
GAATGGCCAAGAACGGCAGTGAAGCAGACATAGACGAGGGCCTTTACTCCCGGCAGCTGTATGTGTTGGGCCATG
AGGCAATGAAGCGGCTCCAGACATCCAGTGTCTGGTATCAGGCCTGCGGGGCTGGGCGTGGAGATCGCTAAGA
ACATCATCCTTGGTGGGGTCAAGGCTGTTACCTACATGACCAGGGCACTGCCAGTGGGCTGATCTTTCTCCC
AGTTCTACCTGCGGGAGGAGACATCGGTAAAAACCGGGCCGAGGTATCACAGCCCCGCTCGCTGAGCTCAACA
GCTATGTGCTGTCACTGCCATCACTGACCCCTCGTTGAGGACTTCCTTAGTGGTTTCCAGGTGGTGGTGCTCA
CCAACACCCCCCTGGAGGACCAGCTGCGAGTGGGTGAGTTCTGTCAACCGTGGCATCAAGCTGGTGGTGGCAG
GCACGCGGGGCTGTTTGGGCAGCTCTTCTGTGACTTTGGAGAGGAAATGATCCTCACAGATTCCAATGGGGAGC
AGCCACTCAGTGCTATGGTTTCTATGGTTACCAAGGACAACCCCGGTGTGGTTACCTGCCTGGATGAGGCCCCGAC
ACGGGTTTGGAGCGGGGACTTTGTCTCCTTTTCAGAAGTACAGGGCATGGTTGAACTCAACGGAATCAGCCCA
TGGAGATCAAAGTCTGGGTCTTATACCTTTAGCATCTGTGACACCTCCAACCTTCTCCGACTACATCCGTGGAG
GCATCGTCAGTCAGGTCAAAGTACCTAAGAAGATTAGCTTTAAATCCTTGGTGGCCTCACTGGCAGAACCTGACT
TTGTGGTGACGGACTTCGCCAAGTTTTCTCGCCCTGCCAGCTGCACATTGGCTTCCAGGCCCTGCACCAAGTTCT
GTGCTCAGCATGGCCGGCCACCTCGGCCCGCAATGAGGAGGATGCAGCAGAACTGGTAGCCTTAGCACAGGCTG
TGAATGCTCGAGCCCTGCCAGCAGTGCAGCAAAATAACCTGGACGAGGACCTCATCCGGAAGCTGGCATATGTGG
CTGCTGGGGATCTGGCACCATAAACGCCCTTCATTGGGGGCTGGCTGCCAGGAAGTCATGAAGGCTGCTCCG
GGAAGTTCATGCCCATCATGCAGTGGCTATACTTTGATGCCCTTGAGTGTCTCCCTCAGGACAAAGAGGTCTCA
CAGAGGACAAGTGCTCCAGCGCCAGAACCCTTATGACGGGAAGTGGCTGTGTTGGCTCAGACCTGCAAGAGA
AGCTGGGCAAGCAGAAGTATTTCTGGTGGGTGCGGGGCCATTGGCTGTGAGCTGCTCAAGAACTTTGCCATGA
TTGGGCTGGGCTGCGGGGAGGGTGGAGAAATCATCGTTACAGACATGGACACCATTGAGAAGTCAAATCTGAATC
GACAGTTTCTTTCCGGCCCTGGGATGTACGAAAGTTAAAGTCTGACACGGCTGCTGCAGCTGTGCGCCAAATGA
ATCCACATATCCGGGTGACAAGCCACCAGAACCCTGTGGGTCTGACACGGAGCGCATCTATGATGACGATTTTT
TCCAAACCTAGATGGCGTGGCCAATGCCCTGGACAACGTGGATGCCCGCATGTACATGGACGCCGCTGTGTCT
ACTACCGGAAGCCACTGCTGGAGTCAGGCACACTGGGCACCAAGGCAATGTGCAGGTGGTGTATCCCTTCTCTGA
CAGAGTCGTACAGTTCCAGCCAGGACCCACCTGAGAAGTCCATCCCCATCTGTACCCTGAAGAACCTCCCTAATG
CCATCGAGCACACCCTGCAGTGGGCTCGGGATGAGTTTGAAGGCTCTTCAAGCAGCCAGCAGAAATGTCAACC
AGTACCTCACAGACCCCAAGTTTGTGGAGCGAACACTGCGGCTGGCAGGCACCTCAGCCCTTGGAGGTGCTGGAGG
CTGTGCAGCGCAGCCTGGTGTGCAGCGACCACAGACCTGGGCTGACTGCGTGACCTGGGCTGCCACCACTGGC
ACACCCAGTACTCGAACAACATCCGGCAGCTGCTGCACAACTTCCCTCCTGACCAGCTCACAAGCTCAGGAGCGC
CGTTCTGGTCTGGGCCCCAACGCTGTCCACACCCGCTCACCTTTGATGTCAACAATCCCTGCATCTGGACTATG
TGATGGCTGCTGCCAACCTGTTTGGCCAGACCTACGGGCTGACAGGCTCTCAGGACCGAGCTGCTGTGGCCACAT
TCCTGCAGTCTGTGCAGGTCCCCGAATTACCCCCAAGTCTGGCGTCAAGATCCATGTTTCTGACCAGGAGCTGC
AGAGCGCCAATGCCTCTGTTGATGACAGTCGTCTAGAGGAGCTCAAAGCCACTCTGCCAGCCAGACAAGCTCC
CTGGATTCAAGATGTACCCCATGACTTTGAGAAGGATGATGACAGCAACTTTCATATGGATTTCATCGTGGCTG
CATCCAACCTCCGGGCAGAAACTATGACATTCTTCTGCAGACCGGCACAAGAGCAAGCTGATTGCAGGGAAGA
TCATCCCAGCCATTGCCACGACCACAGCAGCCGTGGTTGGCCTTGTGTCTGGAGCTGTACAAGGTTGTGCAGG
GGCACCGACAGCTTGACTCTACAAGAATGGTTTCTCAACTTGGCCCTGCCTTTCTTGGTTTCTCTGAACCCC
TTGCCGCACCACGTCAACAGTACTATAACCAAGAGTGGACATTGTGGGATCGCTTTGAGGTACAAGGGCTGCAGC
CTAATGGTGAGGAGATGACCTCAAACAGTTCTCGACTATTTTAAGACAGAGCACAAATTAGAGATCACCATGC
TGTCCCAGGGCGTGTCCATGCTCTATTCTTCTCATGCCAGTGCCAAGCTCAAGGAACGGTTGGATCAGCCGA
TGACAGAGATTGTGAGCCGTGTGTGAAGCGAAAGCTGGGCGCCACGTGCGGGCGCTGGTGTCTGAGCTGTGCT
GTAACGACGAGAGCGGCGAGGATGTGAGGTTCCCTATGTCCGATACCCATCCGCTGACCCCGTCTGCTCCTCT
AGGCTGGCCCCCTGTCCACCCCTCTCCACACCCCTCCAGCCAGGGTTCCATTGGCTTCTGGCAGTGGCCCA
ACTAGCCAAGTCTGGTGTTCCTCATCATCCCTACCTGAACCCCTCTTGCCACTGCCTTCTACCTTGTGTTGAA
ACCTGAATCTAATAAAGAATTAATAACTCCCAAAAAAAAAA

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FIGURE 6168

MSSSPLSKKRRVSGPDKPGSNCSQAQSVLSEVPSVPTNGMAKNGSEADIDEGLYSRQLYVLGHEAMKRLQTSSV
LVSGLRGLGVEIAKNIIILGGVKAVTLHDQGT AQWADLSSQFYLREEDIGKNRAEVSQPRLAELNSYVPVTAYTGP
LVEDFLSGFQVVVLNTNPLEDQLRVGEFCHNRGIKLVVAGTRGLFGQLFCDFGEEMILTD SNGEQPLSAMVSMVT
KDNPGVVTCLEARHGFE S GDFVSFSEVQGMVELNGNQPM EIKVLGPYTF S ICDTSNFSDIIRGGIVSQVKVPPK
ISFKSLVASLAEPDFVVIDFAKFSRPAQLHIGFQALHQFCAQHGRPPRPRNEEDAAELVALAQAVNARALPAVQQ
NNLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEV MKACSGKFMPIMQWLYFDALECLPQDKEVLTE DKCLQRQNR
YDGQVAVFGSDLQEKLGKQKYFLVGAGAIGCELLKNFAMIGLCGEGGEIIVTDMDTIEKSNLNRQFLFRPWDVT
KLKSDTAAAVRQMNPHIRVTSHQNRVGP DTERIYDDDFQNL DGVANALDNVDARMYMDRRCVYYRKPLLES GT
LGTKGNVQVVIPFLTESYSSSQDPPEKSIPIC TLKNFPNAIEHTLQWARDEFEG LFKQPAENVNQYLTD PKFVER
TLRLAGTQPLEVLEAVQRSIVLQRPQTWADCVTWACHHWH TQYSNNIRQLLHNFPDQLTSSGAPFWSGPKRCPH
PLTFDVNNPLHLDYVMAAANLFAQTYGLTGSQDRAAVATFLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSR
LEELKATLPSPDKLP GFKMYPIDFEKDDDSNFHMDFIVAASNLR AENYDIPSADRHKSKLIAGKIIPAIATTTAA
VVGLVCLELYKVVQGH RQLDSYKNGFLNLALPFFGFSEPLAAPRHQYYNQEWTLWDRFEVQGLQPNGEEMTLKQF
LDYFKTEHKLEITMLSQGVSM LYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRALVLELCCNDESGEDVEV
PYVRYTIR

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FIGURE 6169

CAGCTGCTGCTGCGGCGGCTGTGGCGGCGGCAGCGGCGGTGACTGAGGATAGAGAGCCACAGCACGAGGAGCTGC
CAGGCCTGGACAGCCAGTGGCGCCAGATAGAAAACGGCGAGAGTGGGCGAGAACGTCCACTGCGGGCCGGCGAAA
GCTGGTTCTTGTGGAGAAGCACTGGTATAAGCAGTGGGAGGCATACGTGCAGGGAGGGGACCAGGACTCCAGCA
CCTTCCCTGGCTGCATCAACAATGCCACACTCTTTCAAGATGAGATAAACTGGCGCCTCAAGGAGGGACTGGTGG
AAGGCGAGGATTATGTGCTGCTCCCAGCAGCTGCTTGGCATTACCTGGTCAGCTGGTATGGTCTAGAGCATGGCC
AGCCACCCATTGAACGCAAGGTCATAGAGCTGCCCCAACATCCAGAAGGTCGAAGTGTACCCAGTAGAACTGCTGC
TTGTCCGGCACAATGATTGGGCAAATCTCACACTGTTTCAGTTCAGCCATACCGATTCTATTGGCCTAGTATTGC
GCACAGCTCGGGAGCGGTTTCTGGTGGAGCCCCAGGAAGACACTCGGCTTTGGGCCAAGAACTCAGAAGGCTCTT
TGGATAGGTTGTATGACACACACATCACGGTTCTCGATGCGGCCCTTGAGACTGGGCAGTTGATCATCATGGAGA
CCCCAAGAAAGATGGCACTTGGCCCAGCGCACAGCTGCATGTCATGAACAACAACATGTGCGAAGAGGATGAGG
ACTTCAAGGGTCAGCCAGGCATCTGTGGCCTACCAATCTGGGCAACACGTGCTTCATGAACCTCGGCCCTGCAGT
GCCTCAGCAATGTGCCACAGCTCACCGAGTACTTCTCAACAACCTGCTACCTGGAGGAGCTCAACTTCCGCAACC
CACTGGGCATGAAGGGTGAGATCGCAGAGGCCTATGCAGACCTGGTGAAGCAGGCGTGGTCTGGCCACCACCGCT
CCATTGTGCCACATGTGTTCAAGAACAAGGTTGGCCATTTTGCATCCCAATTTCTGGGCTACCAGCAGCATGACT
CTCAGGAGCTGCTGTCTATTCTCTGACGGGCTGCATGAGGACCTTAATCGGGTGAAGAAGAAGGAGTATGTGG
AGCTGTGCGATGCTGCTGGGCGACCGGATCAGGAGGTGGCACAGGAGGCATGGCAAAACCACAAACGGCGGAACG
ATTCTGTGATCGTGGACACTTTCACGGCCTCTTCAAGTCCACGCTGGTGTGCCCCGATTGTGGCAATGTATCTG
TGACCTTCGACCCCTTCTGCTACCTCAGTGTTCACCTGCCTATCAGCCACAAGAGGGTCTTGGAGGTCTCTTTA
TCCCCATGGATCCGCGCCGCAAGCCAGAGCAGCACCGGCTCGTGGTCCCCAAGAAAGGCAAGATCTCGATCTAT
GTGTGGCTCTGTCCAAACACACGGGCATCTCGCCAGAGAGGATGATGGTGGCTGATGTCTTCAGTCACCGCTTCT
ATAAGCTCTATCAGCTAGAGGAGCCTCTGAGCAGCATCTTGGACCGTGATGATATCTTCGTCTATGAGGTGTCAG
GTCGATTGAGGCCATTGAGGGCTCAAGAGAGGACATCGTGGTTCCTGTCTACCTGCGGGAGCGCACCCCTGCCC
GTGACTACAACAACTCCTACTACGGCCTGATGCTTTTGGACACCCCTCCTGGTATCAGTGCCCCGGGACCGCT
TCACCTGGGAGGGCCTGTATAACGTCTCTGATGTACCGGCTCTCAGCTACGTGACCAAAACCAACTCAGATGATG
AGGACGATGGGGATGAGAAAGAAGATGACGAGGAGGATAAAGATGACGTCCCTGGGCCCTCAACTGGGGGACGCC
TCCGAGACCCCTGAGCCAGAGCAGGCTGGGCCCAGCTCTGGAGTCACGAACAGGTGCCCGTTCCTCTTGACAATT
GCCTTGGCACATCTCAGTGGCCCCAAGGCGACGACGCAAGCAGCTGTTACCCCTGCAGACGGTGAACCTCCAATG
GGACAGCGACCGCACAACTCCCTGAAGAAGTCCATGCCAGCCGTACATTGCTATCGACTGGGAGCCAGAGA
TGAAGAAGCGTTACTATGACGAGGTAGAGGCTGAGGGCTACGTGAAGCATGACTGCGTCGGGTACGTGATGAAGA
AGGCTCCCGTGCGGCTGCAGGAGTGCATTGAGCTCTTACCACTGTGGAGACCCCTGGAGAAGGAAAACCCCTGGT
ACTGCCCTTCTTGCAAGCAGCACCAGCTGGCAACCAAGAAGCTGGACCTGTGGATGCTGCCGGAGATTCTCATCA
TCCACCTGAAACGCTTTTCTACACCAAGTTCTCCCGAGAGAAGCTGGACACCCCTCGTGGAGTTTCTATCCGGG
ACCTGGACTTCTCTGAGTTTGTATCCAGCCACAGAATGAGTCGAATCCGGAGCTGTACAAATATGACCTCATCG
CGGTTTCCAACCATTATGGGGGATGCGTGATGGACACTACACAACATTGCTTGAACAAGGACAGCGGCCAGT
GGCACTACTTTGATGACAACAGCGTCTCCCTGTCAATGAGAATCAGATCGAGTCCAAGGCAGCCTATGTCCTCT
TCTACCAACGCCAGGACGTGGCGCGACGCTGCTGTCCCCGGCCGGCTCATCTGGCGCCCCAGCCTCCCTGCT
GCAGCTCCCCACCCAGCTCTGAGTTTATGGATGTTAATTGAGAGCCCTGGGTCTGCCACAGAAAAA
AAAGCCCTCTCTGCAATCTCGCTTCTCGTGTCCGCCCGCTTCTCTTATTCGTGTTAGGTGCCCGCCAGGCAT
TGCAGGCTTAGTTCGTGGCTACTGTTCTCTGTGCGCTGCATCGCTCTCTCCGGGAAAGAACAGGTGCTGTCTC
CTCTAGCAGTGGCGCCCCGCTGTGTTTGGCCTTCCAGCAGTGACCTCCCTTCTAGTCTTTATTTATGGTCCG
TGCCCTTCCCTCTCTCAGCCCAGAGTGTCTGCGTGGTGGTATGGGGTTCACCTGAACACAGAGTGTATT
TCTTATTGAGGCCCTGTACCTTCTGCTGTGTGTGTATATATAAAGCACCAGTCTGCTCCCC

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FIGURE 6170

TGACCCAATAAGGGTGGGAAGGCTGAGTCCCGCAGAGCCAATAACGAGAGTCCGAGAGGCGACGGAGGCGGACTCT
GTGAGGAAACAAGAAGAGAGGCCCAAGATGGAGACGGCGGCGGCTGTAGCGGCGTGACAGTGAAGCTGAGACCTT
GGCACTCAAGAGTGAGACAAGCAACAGGAGGGCCCTGAGCAGAGAAGGAAGTGAAGGACTTCAGATGTGAGCAGG
ATCTCTTGGACTGTCGTGTGAAAATTAGGCTGCAGGGGGCGACAGGAGCCTGGACTTTGAATTTTATTTTGTCCC
CTGCCACTTTGCTTCTAGACTATCATTATTGGACCTCTGAATTCTTGTCTGCCTTCTTGTAGGAGCCCCATGGCA
CCTGCCAGCCCCACCTCAGCCCATCTTGACAAAATCTAAGGCTCCATGGAGCCACCACGGGGCCCCCTGCCAA
TGGGGCCGAGCCATCCCGGCAGTGGGCACCGTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTGACTGT
CCGGGATGGCATGAGTGTCTACGACTCTCTAGACAAGGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGT
GGTCTACCGACTCATCAAGGGACGAAAGACGGTCACTGCCTGGGACACAGCCATTGCTCCCTGGATGGCGAGGA
GCTCATTGTGAGGTCTTGAAGATGTCCCGCTGACCATGCACAATTTTGTACGGAAGACCTTCTTCAGCCTGGC
GTTCTGTGACTTCTGCCTTAAGTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTTCCACCAGCA
TTGTTCCCTCCAAGGTCCCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGCCCTCAAGGTTCTACCACAG
TGTCAGGATTTGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACC GCCCCCTGAATGAGTTGCTAACCCC
CCAGGTTCCAGCCCCCGCACCCAGCACTGTGACCCGGAGCACTTCCCTTCCCTGCCCCAGCCAATGCCCCCT
ACAGCGCATCCGCTCCACGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCCATGGACTCCAACCTCAT
CCAGCTCACTGGCCAGAGTTTCAGCACTGATGCTGCCGTTAGTAGAGGAGGTAGTGATGGAACCCCCGGGGAG
CCCCAGCCAGCCAGCGTGTCTCGGGAGGAAGTCCCCACATTCCAAGTCACCAGCAGAGCAGCGCGAGCGGAA
GTCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGACTCAGGCTATTACTGGGAGGTACCACC
CAGTGAGGTGCAGTGTGAAGAGGATCGGGACGGGCTCGTTTGGCACCGTGTTTCGAGGGCGGTGGCATGGCGA
TGTGGCCGTGAAGGTGTCAAGGTGTCCAGCCACAGCTGAGCAGGCCAGGCTTTCAAGAATGAGATGCAGGT
GCTCAGGAAGACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTGGCATCATCAC
ACAGTGGTGTGAGGGCTCCAGCCTCTACCATCACCTGCATGTGGCCGACACACGCTTCGACATGGTCCAGCTCAT
CGACGTGGCCCGCAGACTGCCAGGGCATGGACTACCTCCATGCCAAGAATCATCCACCGAGATCTCAAGTC
TAACAACATCTTCTACATGAGGGGCTCAGGTTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATG
GAGCGGGGGCCAGCCCTTGGAGCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGA
CCCGAACCCCTACAGCTTCCAGTCAGACGTCTATGCCTACGGGGTTGTGCTCTACGAGCTTATGACTGGCTCACT
GCCTTACAGCCACATTGGCTGCCGTGACCAGATTATCTTTATGGTGGGCGGTGGCTATCTGTCCCCGGACCTCAG
CAAAATCTCCAGCAACTGCCCCAAGGCCATGCGGCGCCTGCTGTCTGACTGCCTCAAGTTCCAGCGGAGGAGCG
GCCCCTCTTCCCCAGATCCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTGCCCTC
GGAAACCTCCTTGCACCGCACCCAGGCCGATGAGTTGCCTGCCTGCTACTCAGCGCAGCCCGCCTTGTGCCTTA
GGCCCCGCCCAAGCCAGGAGCCAATCTCAGCCCTCCACGCCAAGGAGCCTTGCCACCAGCCAATCAATGT
TCGTCTCTGCCCTGATGCTGCCTCAGGATCCCCCATTCACCCTGGGAGATGAGGGGGTCCCCATGTGCTTTT
CCAGTTCTTCTGGAATTGGGGGACCCCCGCCAAAGACTGAGCCCCCTGTCTCCTCCATCATTGGTTTCTCTTG
GCTTTGGGGATACCTTCTAAATTTTGGGAGCTCCTCCATCTCCAATGGCTGGGATTTGTGGCAGGGATTCCACTCA
GAACCTCTCTGGAATTTGTGCCTGATGTGCCTTCCACTGGATTTTGGGGTTCCAGCACCCCATGTGGATTTTGG
GGGTCCCTTTTGTGCTCCCCGCCATTCAAGGACTCCTCTCTTCTTCCCAAGAAGCACAGAATTCTGCTGG

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FIGURE 6171

MEPPRGPPANGAEP SRAVGTVKVYLPNKQRTVVTVRDGMSVYDSLDKALKVRGLNQDCCVVYRLIKGRKTVTAWD
TAIAPLDGEELIVEVLEDVPLTMHNFVRKTFSSLAFCDCLKFLFHGFRQCQTCGYKFHQHCSSKVPTVCVDMSTN
RQQPSRFYHSVQDLSGGSRQHEAPSNRPLNELLTPQGSPSPRTQHCDPEHFPPAPANAPLQIRIRSTSTPNVHMVS
TTAPMDSNLIQLTGQSFSTDAAGSRGSDGTTPRGSPSPASVSSGRKSPHSKSPAEQRERKSLADDKKKVKNLGYR
DSGYWEVPPSEVQLLKRIGTGSFGTVFRGRWHGDVAVKVLKVSQPTAEQAQAFKNEMQVLRKTRHVNILLFMGF
MTRPGFAIITQWCEGSSLYHHLHVADTRFDMVQLIDVARQTAQGMDYLHAKNIIHRDLKSNNIFLHEGLTVKIGD
FGLATVKTRWSGAQPLEQPSGVLWMAAEVIRMQDPNPYSFQSDVYAYGVVLYELMTGSLPYSHIGCRDQIIFMV
GRGYLSPDLSKISSNCPKAMRRLSDCLKFQREERPLFPQILATIELLQRLPKIERSASEPSLHRTQADELPAC
LLSAARLVP

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FIGURE 6172

CATCGCCGCAGATCCAGCGCCCAGAGAGACACCAGAGAACCCACCATGGCCCCCTTTGAGCCCCTGGCTTCTGGC
ATCCTGTTGTTGCTGTGGCTGATAGCCCCAGCAGGGCCTGCACCTGTGTCCCACCCACCCACAGACGGCCTTC
TGCAATTCCGACCTCGTCATCAGGGCCAAGTTCGTGGGGACACCAGAAGTCAACCAGACCACCTTATACCAGCGT
TATGAGATCAAGATGACCAAGATGTATAAAGGGTTCCAAGCCTTAGGGGATGCCGCTGACATCCGGTTCGTCTAC
ACCCCGCCATGGAGAGTGTCTGCGGATACCTCCACAGGTCCCAACAACCGCAGCGAGGAGTTTCTCATTGCTGGA
AAACTGCAGGATGGACTCTTGCACATCACTACCTGCAGTTTTGTGGCTCCCTGGAACAGCCTGAGCTTAGCTCAG
CGCCGGGGCTTCACCAAGACCTACACTGTTGGCTGTGAGGAATGCACAGTGTTCCTGTTTATCCATCCCCTGC
AAACTGCAGAGTGGCACTCATTGCTTGTGGACGGACCAGCTCCTCCAAGGCTCTGAAAAGGGCTTCCAGTCCCGT
CACCTTGCTGCCTGCCTCGGGAGCCAGGGCTGTGCACCTGGCAGTCCCTGCGGTCCCAGATAGCCTGAATCCTG
CCCGGAGTGGAAGCTGAAGCCTGCACAGTGTCCACCCTGTTCCCACTCCCATCTTTCTCCGGACAATGAAATAA
AGAGTTACCACCCAGC

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FIGURE 6173

ACATTGGGCTCCTCCTCCTCGGGCCACGTGAGCTGTAGGGAAACGCAGGGGCGGCTTCTAGGTGCTGCCGCCGC
CACCGCCACCACCACCTCCACCGCCGCCTCGGAACCCAGGCCTGGGGGGCGGTGGGGCCGCGTATGGAGCCCCCG
CCCCCGGAGCTGCCAACATTGCCAACGCCACCGCCACGTACACACAGGTACCCCTGGGATGGCGTGAGCACTC
CCCCAGCGATGGACCCATCTGTGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACA
TCATCTCCTGGACTTCACGGGATGGTGGTGAATTCAAGCTGGTGGATGCAGAGGAGGTGGCCCCGCTGTGGGGGC
TACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGGCCTTGCGGTACTACTATGACAAGAACATCA
TCCGCAAGGTGAGCGGCCAGAAGTTCGTCTACAAGTTTGTGTCTACCCTGAGGTGCGAGGGTGTCCACTGAGG
ACTGCCCGCCCCAGCCAGAGGTGTCTGTTACCTCCACCATGCCAAATGTGGCCCCCTGCTGTCTATACATGCCGCC
CAGGGGACACTGTCTCTGGAAGCCAGGCACACCCAAGGGTGCCAGGAATGGCAGGCCCAGGCGGTTTGGCACGCA
GCAGCCGAACGAGTACATGCGCTCGGGCCTCTATTCCACCTTCACCATCCAGTCTCTGCAGCCGCAGCCACCCC
CTCATCTCGGCCTGTCTGTGGTGTCTCCCACTGCAGCTCCTGCAGGGGCAGCAGCGCCCCCTCGGGGAGCAGGA
GCACCACTCCAAGCCCCCTTGAGGCCTGTCTGGAGGCTGAAGAGGCCGGCTTGCCTCTGCAGGTTCCTGACCC
CGCCCCGAGCCCCAAACCTGAAATCGGAAGAGCTTAATGTGGAGCCGGGTTTGGGCCGGGCTTGGCCCCAGAAG
TGAAAGTAGAAGGGCCCAAGGAAGAGTTGGAAGTTGCGGGGGAGAGAGGGTTTGTGCCAGAAACCAAGGCCG
AGCCAGAACTCCCTCCACAGGAGGGCGTGCCAGCCCGGCTGCCCGCGGTTGTATGGACACCGCAGGGCAGGCGG
GCGGCCATGCGGCTTCCAGCCCTGAGATCTCCAGCCGCAGAGGGCCGGAAGCCCCGGGACCTAGAGCTTCCAC
TCAGCCCGAGCCTGCTAGGTGGGCCCGGACCCGAACGGACCCAGGATCGGGAAGTGGCTCCGGCCTCCAGGCTC
CGGGGCCGCGCTGACCCCATCCCTGCTTCTACGCATACATTGACCCCGGTGCTGCTGACACCCAGCTCGCTGC
CTCCTAGCATTCACTTCTGGAGCACCTGAGTCCCATTCGCCCCCGTAGCCCCGGCCAAGCTCTCCTTCCAGTTTC
CATCCAGTGGCAGCGCCCAGGTGCACATCCCTTCTATCAGCGTGGATGGCCTCTCGACCCCGTGGTGTCTCTCC
CAGGGCCCCAGAAGCCATGACTACTACCACCACCACCACCACCCCTTCTGGGGTCACTCCATCCATGCTCTCTCC
AGCCAGCCATCTCAAGGAGAAACATAGTTCAACTGAAAGACTCATGCTCTGATTGTGGTGGGTGGGGATCCTTG
GGAAGAATTACTCCCAAGAGTAACCTCTCATTATCTCCTCCACAGAAAACACACAGCTTCCACAACCTCTCTGTTT
TCTGTCTAGTCCCCAGTGGCCGCCCTTACACGTCTCCTACTTCAATGGTAGGGGCGGTTTATTTATTTATTTTTT
GAAGGCCACTGGGAGGAGCCTGACCTAACCTTTTAGGGTGGTTAGGACATCTCCCCACCTCCCCACTTTTTTCC
CCAAGACAAGACAATCGAGGTCTGGCTTGAGAACGACCTTTCTTTCTTTATTTCTCAGCCTGCCCTTGGGGAGAT
GAGGGAGCCCTGTCTGCGTTTTTGGATGTGAGTAGAAGAGTTAGTTTGTGTTTATTTATTTCTGCCCATACT
CAGGGGTCCAGGAAGAATTTGTACCATTTAATGGGTGGGAGTCTTGCCCAAGGAAGATCACACCCTTGAATA
GAAATTTCCACCTCCCCAACCTTTCTCTCAGACAGCTTATCCTTTTCAACCAACTTTTGGCCAGGGAGGAATGT
CCCTTTTGTCTTCCCCCTGAGAAGCCATTCTTTGTCTGCCAACCTCCCTGGGGTCCCTGCCTGTTTCTCTCCAA
TGGAGGGTTTTTTTGGGGGGTGGTCCCCGTCTGGGGGGCCCTCCAGCCAGTACTCCAGGTCTCCCTGTCTCTCC
CCCGCTGCCATTTTGATAGTATAATCTATTTTTAAATGGGGCTTTTCAATAGGGGAGAGGGAGTCACTCTCTCCT
ATATTTGGTGGGGTGGGTGGGAAGGAAGGATTTGGGGGGGAATCTTCTGCGCCTCCCCACTCCAAGTGTTT
ATTTTTGATACCAACATGAATTTTCAGTTCCCTCCCTCCAGCCCCCAATTTCTGCGGGCGGTACAAAGGA
CCCTTTCAATGTCCCTGGAGTTGGGAGGGAGGAATGGGGGACATAAAGCCTGTCTGTCTATTCTAGGCAAGA
GAGAGTGGGTTCAAAGACTCCTGGGCTCACCTGTTAGCGCTGGCCCAGCCAGGCCTTGGGACCTGGGGGTGG
TGATTTGGGGGACAGTGCTACACTCGTCTCCACTGTTTGTGTTTACTTCCCCAAAATGGACCTTTTTTTTTTCTAA
AGAGTCCCAGAGAATGGGGAATTGTTCCTGTAAATATATATTTTTTCAAAGTGA

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FIGURE 6174

CGGAAGCCGCGGTTCTACCAACCGTTCTTATTGCTGGCGGCCTGAGGAGCCCATCATGGCGACGCCCCCTAAGC
GGCGGGCGGTGGAGGCCACGGGGGAGAAAGTGCTGCGCTACGAGACCTTCATCAGTGACGTGCTGCAGCGGGACT
TGCGAAAGGTGCTGGACCATCGAGACAAGGTATATGAGCAGCTGGCCAAATACCTTCAACTGAGAAATGTCATTG
AGCGACTCCAGGAAGCTAAGCACTCGGAGTTATATATGCAGGTGGATTTGGGCTGTAACTTCTTCGTTGACACAG
TGGTCCCAGATACTTCACGCATCTATGTGGCCCTGGGATATGGTTTTTCTGGAGTTGACACTGGCAGAAGCTC
TCAAGTTCATTGATCGTAAGAGCTCTCTCCTCACAGAGCTCAGCAACAGCCTCACCAAGGACTCCATGAATATCA
AAGCCCATATCCACATGTTGCTAGAGGGGCTTAGAGAACTACAAGGCCTGCAGAATTTCCCAGAGAAGCCTCACC
ATTGACTTCTTCCCCCATCCTCAGACATTAAAGAGCCTGAATGCCTTT

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FIGURE 6175

MATPPKRRAVEATGEKVLRYETFISDVLQORDLRKVLDHRDKVYEQLAKYLQLRNVIERLQEAKHSELYMQVDLGC
NFFVDTVVPDTSRIYVALGYGFFLELTAEALKFIDRKSSLLTELSNSLTKDSMNIKAHIHMLLEGLRELOGLQN
FPEKPHH

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FIGURE 6176

GCCTTGGAAATAGCTGGCTACTACCCTGCACTGTTCCCTGCTGTCCCCAGGCCCTCTGCTGCTGAATCTGCCTT
TCTCTGCCTCTTTTTCTCTGTCCCTCCAGGAGTCTCTCTGCCTCAACCACTCTCTCTGCCCCCTTCATCTCTCTGA
GCTGGTGTGTCTGGTCTTACCCTCTGTTTGGGGAGCTGTCTGGCTCTGTCCCCACCTCTTGGCCAGCCTGTGTC
TCTGTCTATGACTGAGCCCAATTGCCTGTTGCCTTTCTGCAGGTGTTTCCACGAGCCTATCCCTACCCACCTGT
TTGTTTCTGAGTCTGCCTGTGTGTCCCTTTCTCCCTGTCTCTGCCTGTCTTCCAAGCTCCCCTAGCATCCCCCTCC
TCCCGCCCACTGTCTTTCTGTCCCTTCTGTGGTCTGTCTGTTTCTGTGCTGTTTCTCATGCCTGCTTTCTTTGT
AACTTCAGTTCTCCTACTCTCTCTGTCTCTCTGCACCTTTTTCTGCCATCCATCCCATCTGCTGTCCGT
CTGCTCTGTGAGTCCATCCCCTCTGTCTGCCTGTCACTCTCTCTAGCTGTGGGTCTACACCCTCAATCTTTCAG
CCATTTCCCCCACCATCAACACACAAACAAACCCTGTCTCCCTCCAAGTGGGTCCAGATAGGGGGCGCCCCCTTC
TCCACCTCTTCCCCCGCCAGGGCCAGAAGGAGGGAACGAAATTAATAATTAACATTTCTTCTCAGGAAAAAAA
AAAAGTACCCTCCAGAGCAGGAGCCTAGGCAGCCGAGAGGGTGCCCGAACCTGAGTCTGAGTTGCGGCCACTTC
AGGAGCTGAGAGGAGCAGGATGGAAGTGCAGGATCCAAAGATGAATGGAGCCCTCCCTTCGGATGCTGTGGGCTA
CAGGCAAGAACGTGAGGGCTTCTGCCCAGTCGTGGTCTGTCTCTGGGAGCAAGCCGGTCCAGTTTCATGGATTT
CGAGGGGAAGACATCGTTTGAATGTCTAGTGTTCACCTCAGCAACGCCATCATGGGCAGCGGCATCCTGGGGCT
GGCCTATGCCATGGCCACACGGGGGTTCATCTTCTTCTGCCCCTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCT
CTCCATCCACCTCCTGCTGACCTGTGCTGGTATTGAGGCATCCGAGCCTATGAGCAGCTGGGACAGAGGGCATT
CGGGCCTGCGGGGAAGGTAGTGGTGGCCACAGTCATCTGTCTGCACAATGTTGGGGCCATGTCCAGTTACCTGTT
CATCATCAAATCTGAGCTCCCCCTGGTTATCGGCACCTTCTGTACATGGACCCCGAGGGGGACTGGTTCTTGAA
GGGAAACCTCCTCATCATCATCGTCAGTGTGTTAATCATCCTGCCCTCGCCCTCATGAAACACTTGGGCTACCT
GGGGTACACAGTGGTCTCTCTGTGACCTGCATGCTGTTTTCTTGTGTTTCGGTCACTACAAGAAGTTCCAAC
TGGCTGTGCTATAGGCCACAATGAAACAGCAATGGAGAGTGAAGCTCTCGTGGGACTCCCCAGCCAAGGACTCAA
CAGCAGCTGTGAGGCCAGATGTTTACAGTTGACTCACAGATGTCTTACACAGTGGCCATTATGGCTTTTGCTTT
TGCTGTGCCACCCTGAGGTGCTGCCCATCTATACGGAGCTGTGCCGGCCCTCCAAGCGCAGGATGCAGGCGGTGGC
CAACGTGTCCATTGGGGCCATGTTCTGCATGTATGGGCTCACAGCAACCTTTGGATACCTCACCTTCTACAGCAG
TGTGAAGGCGGAGATGCTGCACATGTACAGCCAGAAGGACCCGCTCATCCTCTGTGTGCGCCTGGCCGTGCTGCT
CGCGGTGACCTCACTGTGCCAGTCGTGCTGTTCCCTATCCGCGGGGCCCTGCAGCAGCTGCTTTTCCAGGCAA
GGCCTTCAGCTGGCCACGACATGTGGCCATAGCTCTGATCCTGCTTGTTTTGGTCAATGCTCTTGTCTGCTGTG
GCCAACCATCCGGGATACTTTGGAGTTATCGGGTCCACCTCAGCCCCCAGCCTCATCTTCTATCTCCCCAGCAT
CTTCTACCTCCGCATTGTACCCTCTGAGGTGGAGCCTTTCTTATCCTGGCCCAAGATCCAGGCCCTGTGCTTTGG
AGTCTGGGAGTCTCTTCTATGGCCGTGCTGCTAGGCTTTATGTTTGCCAACTGGGCCACAGGCCAGAGCCGCAT
GTCTGGACACTGATCAGGCCCTGCTGGCCAGGTCCCTGTGCGCATGCACATGGAGGGGTGAGGGCCGCTCCCTA
GGGTCCCTCTGCCCAACATGTGGAGGTGGCTGGTTCCCATGAACGTGGTTGTGAGAGGGGGGGACAGCAGAGG
CTGCAGACTGGCCACTTCCCTCCTCCCCAGGGATGCCAAGCTTGGATCATGGCCCTAATCCCAACCCCAACCCC
ATGGGAGGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
GTGGAGCCTTTGCCAGCCAGTCCTCTCTGCCTCCTCTGGCTGAAGCTGTTTGTGAGGATTACCTCTGGGCTA
AAGAGGAAAAATAAAGATGTTGAGCTACC

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FIGURE 6177

CCTGTTTTTGTGCTCCICCGAGCTCGCTGTTTCGTCCGGGTTTTTTACGTTTTAATTTCCAGGACTTGAAGTGCC
ATGTCCTCTGAAGAAGGAAAGCTCTTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCAC
TTCAGCAGTTTCGGACCTATCTCTGAGGGTGAGACGGGCCATACTCACAATGGGGGTTGGTGAGAGAAAGTCTGG
GATCCTTGCATTTCAAGGAGTATTAAGTAAAAGTTAGGACCCACGCCTCCAAATCTTTTTCTCTCAAGCCTA
TGGTGTAGACTAAGGATGAGGGGAAGCGTCTTTGGGATTAGTGGGAGCGCTCCGTTTTCCCTACCTATGCCATCT
CCTTTTCCGGCCACCCTTTGCTACTTAACCTTTGGGGTACTGACTGGTCCACATTGCTCCATCTTCTCTCCCTCT
CACAGTGGTCGTTGTCAAGGACCGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTCATCACCTTCACCAACCCAGA
GCATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGGTGGGGCCCTCTATCTGCAGAGGGACCTTGCCCCATC
TGCGGCTTCCCTTCATTTCTTTTTGTTTTTCCCTCTGTGCTGCTCGGGGCAGCGTGGCCACCAAGCCCCGAGTGC
CCACTCACAGGAGCATGACTGCCTTTTGTCTTAGGGGTGGAGGGCAGCGGCAGACAGAGCCTGGCCGCTGGGA
GGCGACGACTGGTCTGTCATGAGGCCGAGAAGCCACCTGTGGATGGTTGACCTGCCCTGGGCTTAGGTAGTAGAG
TCTGCAGACCTGTGGGCTGGCCCGGAGAGGACCTCGTGAGTCTTCTGACATGGACTCTGAAGCCTCAAACCAAG
AGAGGTGTCTGTCTAGCCCTGATAGTCGGGCAGCTTAGAGGAGTGGGGAGGAGAACTCAGCCTGAGTTCAAGTCAA
GATGTAAGTAGTAGCAAGGGGAACATGGTGCATTCAAGTCAATTTGTGTGGGATTCTATAGCTCTGATGAAGCC
ATTCTGGGGTAAAGGAGCTTATTCTGGAACATGGCACCCAGAACCCTGGTGCCAGCAGGAATTTTGGCCTCTTT
TGCCCACTTACCCTTGCTGCTCTTCCCTCACCATTGCCCTGACTGACTGCCAACCCTATCCTTGTGTCTCCC
ACACTTAGTCTCTGGATGGTCGTCAGATCCGTGTGGATCATGCAGGCAAGTCTGCTCGGGGAACCAGAGGAGGTG
GCTTTGGGGCCCATGGGCGTGGTCGCAGCTACTCTAGAGGTGGTGGGGACCAGGGCTATGGGAGTGGCAGGTATT
ATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGAGACTATAATGGCAGAAACCAGGGTGGTT
ATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACGAAATGAGACATGCACATAATATAGGTGAG
ACTTGATATCGGCATTGAGTGAACCTGTTTGTCACTCTGTCTGACCTCTCACCTTTTCTGGCAAGACTGC
TCTGCATTTCTGCTGCCCTCATACTCACCAGCCAACCTACCAACATTCTAGCTAGGCCTTCCCTGCTCTCA
GGTGCATATCAGAGCAAGTTTGCTAGGGGGTGGGATCTGAAAACCCATCTCCTATAATCTTCTACTCTGTGTGG
GATGGAGGAAATGAAGGTGTGTCCTGTTGTCCAACCTCAGCATCTTCATCAGCTCTAGGAGGTGAGCATGTTG
TCAGCTGTTACTTCATGACATCACAATTCCTCCCTCTTGCTGTTCCAGATACACAAGGAATAATTTCTGATCC
AGGATCGTCCCTCCAAATGGCTGTATTTATAAAGGTTTTTGGAGCTGCACTGAAGCATCTATTTTATAGTATAT
CAACCTTTTGTTTTTAAATTGACCTGCCAAGGTAGCTGAAGACCTTTTAGACAGTTCCATCTTTTTTTTTAAATT
TTTTCTGCCTATTTAAAGACAAATTATGGGACGTTGTAGAACCTGAGTATTTTCTTTTACCAGTTTTTTAGT
TTGAGCTCTTAGGTTTATTGGAGCTAGCAATAATTGGTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAA
TGTGTATCCAGGGACATTTTAAAAACCTGTACACAGTGTATTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTA
TAAGAAATGTGCATCAAGCCAGCCTGACCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTG
GCATGGTGGTGTACGCCTGTAATCCAGTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGG
AGGTTGCAGTGAGCTAAGATCGCGCCACTGTACTCCAGCCTGGGCAACAGCGAGACTCCATCTCAAAAAAAGG
AAATGTGTATCAAGAACATGATTATCCAGGGGTATTTCTAATTCAGATCATCAAACGATTATATAGAAGAGTT
GGCTTTAAATGTTTGAATGTCTTTTTTTTTTAATACTGGAAGAAAAAATATTCTGTTGTGTCTCATACAGT
GCTTAGGATGCTTTTACAGAGCTTATTAAAAAGATGAAACCTG

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FIGURE 6178

MAPRTWCPAGIFGLFCPLTLACSSLTIALTDCQPIILVSPTLSLWMVVRVWIMQASLLGEPEEVALGPMGVVAA
TLEVVGTRAMGVAGIMTVDLEGMDMDMDVPETIMAETRVVMTATQEEITETIMTTEMRAHNIGETWISALSEPV
CHTLS

TCTTGCCTGGAGCCTGAGAAAGGAGGAGGAGACAGAAGGAACCGGCACAGTGGTCTCAGGGCCGCTCCGGGGGG
CCTCAAGAACCGGAGGCAGCCCCGAGGTTGGTCCCCGATCCCGGGCTATGCTCTTGGATCTGAGAAGGGAAGGCG
GAGGGCGGCGGGGACAAGATGGGTGGAGAATGTCAAGCAAGGAATGCTAGGCGGGGGAGGGGCGTTGCTATGGCG
ACTGGGGAGGGGCGGTGTCTGTTCTGAATCGCTGTGTGTACCCGGGCGCTGCCAGGAAGGGCAGGGCTGGGGT
GATGACCATGGTAACACCGGGTGGGAGTTCGTGACATCTCCGGCGCGAGGGACTCGATGTCTATGGCAATGGT
CGCCTGGTGGAAAGGACGGAACTAGATCCCTTCGCTCGGGACGCTCACATTCAGGCCCTTGTCTGCAGGCTGC
CGCGGGCGGACACGCCAGAGGAGGAGGCCGGGGAAATGCGCGCGGTGTGGCAGCAAGTCTTAGCAGTGACGCGAG
GTACAACGCGTACCGCACACCAACGTTTCCACAGTTTCGGACGCAGTATATCCGCCGGCGCAGCCAGCTGCTGCG
GGAGAATGCCAAGGCTGGGCACCCCCAGCGCTGCGTCGGCAGTACCTGAGGCTTCGGGGGCAGCTGCTGGGCCA
GCGCTACGGGCCCCCTCTCCGAGCCAGGCAGTGTCTGTGCCATATAGCAACAGCATCGTCCGCAGTAGCCGCACTAC
TCTTGACCGCATGGAGGACTTTGAGGATGATCCTCGGGCCCTGGGGGCCGTGGGCACCGTCGTTTCTGTCAGCAG
AGGCTCTTACAGCTGCAGGCGCAGATGAACCGTGCCGTCTATGAGGACAGGCCCCCTGGCAGCGTGGTGGCCAC
GTCAGCAGCAGAGGCAAGTCGGGCCATGGCCGGGGACACGTCACTGAGCGAGAAGTATGCCTTTGCGGGCATGTA
TCATGTTTTTGACAGCAGCTGGATGAGGAGTCCCAAGGGTGCCTTCGCCAATGATGACCGACACCGCCTGGC
CTGCTGCTCACTCGACGGCAGCATCTCCCTGTGCCAGCTGGTGCCTGCCCCACCCACAGTGCTTCGCGTGCTACG
GGGCCACACCCGTGGTGTCTCCGACTTCGCTGGTCCCTTCCAATGACATCCTCGTGTCCACCTCACTGGATGC
CACCATGCGCATCTGGGCCCTCTGAGGATGGTGTGCTGCATCCGAGAGATCCCTGACCCCGATAGCGCTGAACTGCT
CTGCTGCACCTTCCAGCCTGTCAACAACAACCTCACTGTGGTGGGGAACGCCAAGCACACGTGCATGTCATGAA
CATCTCCACAGGCAAGAAAGTGAAGGGGGGTCCAGCAAGCTGACAGGCCGTGTCTTGTCTGTCTTTGATGC
CCCTGGCCGGCTGCTCTGGGCGGGTGATGACCGTGGCAGTGTCTTCTCTTTCTCTTTGATATGGCCACAGGGAA
GCTGACCAAAGTCCAAGCGTTTGGTGGTGCATGAGGGGAGCCCTGTGACCAGCATCTCAGCCCGGCTCTGGGTGAG
CCGCGAGGGCCCGGGATCCCTCACTGCTCATCAATGCTTGCTCAACAAGTTGCTGCTCTACAGGGTGGTAGACAA
CGAGGGGACCTTGCAGCTGAAGAGAAGCTTCCCATCGAGCAGAGCTCACATCCTGTGCGCAGCATCTTCTGTCC
CCTCATGTCTTCCGCCAGGGGGCCTGCGTGGTGACGGGCAGTGAGGACATGTGCGTGCCTTCTTTGATGTGGA
GCGGGCGGCCAAGGCTGCTGTCAACAAGCTGCAGGGCCACAGTGCACCTGTGCTTGTATGTCAGCTTCAACTGCGA
CGAGAGCCTACTGGCCTCCAGTGACGCCAGCGGCATGGTTCATCGTCTGGAGGCGGGAGCAGAAGTAGGGTCTGT
CGGCCCTGCTGCTGTCTCCATCCACCCCTCTTACTCCAGCCTCGTGTGTAAATAAAGTTTCGGTGGTCATGC
TGAGGGCCGGCTCCAGCTCTGCCGGGGACGGACAGGGCAGAGGGCAGCGGCAGCTCCAGGAACACGGTGAAAA
AAAAAAA

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FIGURE 6180

MAAVWQQVLAVDARYNAYRTPTFPQFRTQYIRRRSQLLRENAKAGHPPALRRQYLRLRGQLLGQRYGPLSEPGSA
RAYSNSIVRSSRTTLDRMEDFEDDPRALGARGHRRSVSRGSYQLQAQMNRAVYEDRPPGSVVPTSAAEASRAMAG
DTSLSENYAFAGMYHVFQHVDEAVPRVRFANDDRHRLACCSLDGSISLCQLVPAPPTVLRVLRGHTRGVSDFAW
SLSNDILVSTSLDATMRIWASEDGRCIREIPDPDSAELLCCTFQPVNNNLTVVGNAKHNVHVMNISTGKKVKGGS
SKLTGRVLALSFDAPGRLLWAGDDRGSVFSFLFDMATGKLTKAKRLVVHEGSPVTSISARSWVSREARDPSLLIN
ACLNKLLLYRVVDNEGTLQLKRSFPIEQSSHPVRSIFCPLMSFRQGACVVTGSEDMCVHFFDVERAAKAAVNKLQ
GHSAPVLDVSFNCDESSLASSDASGMVIVWRREQK

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FIGURE 6181

GGGAGAGGAACAGGGCCCTGGAGCACCTGGTTTCGGGGACAGTAGGGTTGGTGGGAGTTGCGATGATATTGCCAC
CTACCTCTTACATCTTTTAGTGCGTATGTTCTGTCCACCCAGCTACTGGTTCATTGAGTAGATCGGAGTCAGAT
GAGTACATGTTTACGGGAGGCGCTTGGTTACGGGATCCAGATAGGAATCTTTATCTGAGCTGCTTGTCAGTTTGT
TCGTCTGTCCCTAGGTCTGTCTGCTATCAGCTATGCGCTGCCCGTTGCGCTGCAGACCCGCTTGGCCAAGAGAG
GCATCCTCAAACATCTGGAGCCTGAACCAGAGGAAGAGATCATTGCCGAGGACTATGACGATGATCCTGTGGACT
ACGAGGCCACCAGGTTGGAGGGCCTACCACCAAGCTGGTACAAGGTGTTGACCCCTTCCTGCGGGCTCCCTTACT
ACTGGAATGCAGACACAGACCTTGTATCCTGGCTCTCCCCACATGACCCCAACTCCGTGGTTACCAAATCGGCCA
AGAAGCTCAGAAGCAGTAATGCAGATGCTGAAGAAAAGTTGGACCGGAGCCATGACAAGTCGGACAGGGGCCATG
ACAAGTCGGACCGCAGCCATGAGAACTAGACAGGGGCCACGACAAGTCAGACCGGGGCCACGACAAGTCTGACA
GGGATCGAGAGCGTGGCTATGACAAGGTAGACAGAGAGAGAGCGAGACAGGGAACGGGATCGGGACCGCGGGT
ATGACAAGGCAGACCGGGAAGAGGGCAAAGAACGGCGCCACCATCGCCGGGAGGAGCTGGCTCCCTATCCCAAGA
GCAAGAAGGCAGTAAGCCGAAAGGATGAAGAGTTAGACCCCATGGACCCTAGCTCATACTCAGACGCCCCCGGG
GCACGTGGTCAACAGGACTCCCCAAGCGGAATGAGGCCAAGACTGGCGCTGACACCACAGCAGCTGGGCCCCCTCT
TCCAGCAGCGCCGTATCCATCCCCAGGGGCTGTGCTCCGGGCCAATGCAGAGGCCTCCCGAACCAAGCAGCAGG
ATTGAAGCTTCGGCCTCCCTGGCCCTGGGTTAAAATAAAAGCTTCTGGTGATCCTGCCCACC

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FIGURE 6182

MPLPVALQTRLAKRGILKHLEPEPEEEIIAEDYDDDPVDYEATRLEGLPPSWYKVFDPSGCLPYYWNADTDLVSW
LSPHDPNSVVTSAKKLRSSNADAEKLRSHDKSDRGHDKSDRSHEKLRGHDKSDRGHDKSDRDRERGYDKVD
RERERDRERDRDRGYDKADREEGKERRHHRREELAPYPKSKAVSRKDEELDPMDPSSYSDAPRGTWSTGLPKRN
EAKTGADTTAAGPLFQQRYPYSPGAVLRANAEASRTKQOD

FIGURE 6183

TTGATGTTTTCCAGTCATTTCCGGCTGACAGCGTTCAAGTTGGAATCTCTGGAGGGGAGGTGTTTTTCTGTCTGAT
GTGGGACAGGCCACGCTGTCCGTCCGCAGTACCGACGCGTGCAGGTTCAGAGCTTCGGGGAGAAAAAGTGAAGAGCA
AGACGGAACCTGACGGGGAGAAAAGGCTGGGAACCAAGGTTGTCGACTTTGACTGAAATTTGAGACGGAGGGCACCGG
AGGGCGAGCACTCGCCTGTGATTGGCCCCGTGGGCGTCTGTCGAGGTCCCACGCAGCTGCTCAATTGGTTGGTGTG
CAATTGTTGTGGCGGCGGCGGCGGCGATTGTTGCCACGTACTTCCGAGTAAGGGGCGGGGCTGTGCCCTGGCGCG
CGTGCGCAGCGCCCCGGGGCCCCACCCGGTAGTGCAAGAACCTGCGAGGGGGCGGAGCGAAGAGGTGCTTGT
GGTCTGTTTTCTTTGAAGCAGAAGGCCGGAACAAGCGTAGCAATAAACTTGTGGAATTGGAGAGAAGGCTAA
ACAAACTCGCCGCACTGCCCTTCATCTTGGACTTTACATCCGGTTTCTCTCTCGCGGTGACCCGCGCGCCGCCAC
CGCCGCGCGCGCGCGCGCGCGCTCCGCCCGGAGGGTTCTCGAACCGGTGCCCGCATCCCTTTATCCGGGTC
TCGCCGTTCCCGTCTGTGCTTCGCGCACTACACTAGCCCCCTCATCCGGTTCTCTCCCGCGGTGCCCGCGCGCGG
GTTTGTGGGGGGTACTCGGCAGTGCAGCCATGACTATACTCCCCAAAAAGAGCCGCGCGCTCCCGACGCCGAC
CCCGCCAACGAGCCGCGCGCGCGCGCGGCGGATGCCCGCGCGCGCGCGCGCGCGGAGGTGTGGGCGTGGCGCG
GGCGGCACGGGCGTGGGCGCGCGCGATCGCGACCGTGACTCCGGCGTCTGTGGGGGCCGTCGCCGAGCTTCGCCA
CCGCCTCAAGGCCCGCTACCAGGACCGCGCGGCGCTCTTCATCGCTGGGCGCTGGCCGTCGCCGCTGTGTCAGTG
CGGGGTCCCCGGCCACAACAGGCTTCTCCACCTCCTTGCGGGGGGCCAGGTGGTCCCGCGCGCGGTCCCGCGCAC
CGCTGGGCGCAGCGGCGCGGGTGTGGGTGCCCGGGCGTGGTGGTGGTGTGGGTGGTGCCGTAGGCGTGGG
GGCTGCTGCTCCGGGCGTGGGCACAGCAAGCGCGACGTCAAGCTCCCGGGGTGGCGCGGTGGCGGGGGCAGT
CCCGAGCGTGAGGAGGTTCGGCGCAGGCTACAACAGTGAGGACGAGTATGAGGCGGCTGCAGCACGCATCGAGGCT
ATGGACCTGCCACTGTTCGAGCAGCAGGAGCATTGGTTTGAAAAGGCCCTACGAGACAAGAAGGGCTTCATCATC
AAGCAGATGAAGGAGGATGGCGCTGTCTCTTCCGGGCTGTAGCTGACCAGGTGTATGGAGACCAGGACATGCAT
GAGGTTGTGCGAAAGCATTGCATGGACTATCTGATGAAGAATGCCGACTACTTCTCCAATATGTCACAGAGGAC
TTTACCACCTACATTAACAGGAAGCGGAAAAACAATTGCCATGGCAACCACATTGAGATGCAGGCCATGGCAGAG
ATGTACAACCGTCTGTGGAGGTGTACCACTACAGCACAGAACCCATCAACACATTCCATGGGATACATCAAAAC
GAGGACGAACCCATTCTGTGTTAGCTACCATCGGAATATCCACTATAATTCAAGTGGTGAATCCTAACAAAGGCCACC
ATTGGTGTGGGGCTGGGCCGTGCCATCATTCAAACAGGGTTTGCAGAGCAGTCTCTGATGAAGAATGCCATAAA
ACATCGGAGGAGTCATGGATTGAACAGCAGATGCTAGAAGACAAGAAACGGGCCACAGACTGGGAGGCCACAAAT
GAAGCCATCGAGGAGCAGGTGGCTCGGGAATCCTACCTGCAGTGGTTGCGGGATCAGGAGAAACAGGCTCGCCAG
GTCCGAGGCCCCAGCCAGCCCCGGAAGCCAGCGCCACATGCAGTTCGGCCACAGCAGCAGCCTCCAGTGGCCTG
GAGGAGTGGACTAGCCGGTCCCCGCGGCGAGCGGAGTTACGCCTCGTCACTGAGCACCCCTGAGCTGCATGCTGAA
TTGGGCATGAAGCCCCCTTCCCCAGGCATGTTTAGTCTTGCCAAACCTCCTTGCCTGTGCGCCAGGTACA
AGCAGTCAGTTCTCGGCAGGGGCGACCGGGCAACTTCCCCCTTGTGTCCCTCTACCCCTGCTTTGGAGTGGCGG
GCCCTCAATTCAGCAGATGTCCCCCTCTGCCTTTGGTCTGAATGACTGGGAAGATAGACAAGAGGCACACAGAGAC
AGACCAACTTGGCAGGCAGGCCAGCCGAGGAGAGAGACATTGACAGCAGGAAAGTCTCCCTGCCCTCATTTCC
TTCCAAGATGAGAAAAACTTGCCGCCAGGCCCCGACACTGATGCCAGGAGGTTGGGAGGAAGAAGTGGGAAATTT
CCCTTCCAGTAGACCCCAAGAACGTCTGAGCCTTCAATGTTGAATTTTTTCTTTATTAAAAATTACTTTTATCTTA
TAAAATC

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FIGURE 6184

MTILPKKKPPPDADPGGTGVGGGDRDRDSGVVGARPRASPPQGPLPGPPGALHRWALAVPPGAVAGPRPQQAS
PPPCGGPGGGPGGGPGDALGAAAAGVGAAGVVVGAVGVGGCCSGPGHKKRRRQAPGVGAVGGGSPEREVAG
YNSEDEYEAAAARIEAMDPATVEQQEHWFEEKALRDKKGFIIKQMKEDGACLFRAVADQVYGDQDMHEVVRKHCM
YLMKNADYFSNYVTEDFTTYINRKRKNCHGNHIEMQAMAEMYNRPVEVYQYSTEPINTFHGIHQNEDEPIRVSY
HRNIHNSVVPNKATIGVGLGLPSFKPGFAEQSLMKNAIKTSEESWIEQQMLEDKKRATDWEATNEAIEEQVAR
ESYLQWLRDQEKQARQVRGPSQPRKASATCSSATAAASSGLEEWTSRSPRQRSSASSPEHPELHAELGMKPPSPG
TVLALAKPPSPCAPGTSSQFSAGADRATSPLVSLYPALECRALIQQMSPSAFGLNDWEDRQEAHRDRPTGSQAAP
EERDIQTEESLPAPHSFQDEKNLPPPPDIDAREVGGRSKGFPFPVPPRTSEPSMLNFFFIKITFIL

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FIGURE 6185

CTGGGTGTACAGCGTCCTCGAAACCACGAGCAAGTGAGCAGATCCTCCGAGGCACCAGGGACTCCAGCCCATGCC
ATGGCGGATTCTGAGCGCCTCTCGGCTCCTGGCTGCTGGGCCGCCTGCACCAACTTCTCGCGCACTCGAAAGGGA
ATCCTCCTGTTTGCTGAGATTATATTATGCCTGGTGATCCTGATCTGCTTCAGTGCCTCCACACCAGGCTACTCC
TCCCTGTGCGTGATTGAGATGATCCTTGCTGCTATTTTCTTTGTGTCTACATGTGTGACCTGCACACCAAGATA
CCATTTCATCAACTGGCCCTGGAGTGATTTCTTCCGAACCTCATAGCGGCAATCCTCTACCTGATCACCTCCATT
GTTGTCCTTGTTGAGAGAGGAAACCACTCCAAAATCGTCGCAGGGGTACTGGGCCTAATCGCTACGTGCCTCTTT
GGCTATGACGCCTATGTACCTTCCCCGTTCCGGCAGCCAAGACATACAGCAGCCCCCACTGACCCCGCAGATGGC
CCGGTGTAGGCGAACTTCCCTCATTCTCTCTGCAATCTGCAAATAACTCCTCCATTGAAATAACTCCTCCCCAC
CCCAACAACAACATTCCCAGCAGACCAACTCCCACCCCTCTTTGAGGTAAAAGTGCCTTTATTGGGAGACTTTT
GTCTTCCAGCCTGCCAATCAACCCTCCTGGGTGTGGCCACCATAATGTGTGTGCCTAGGTCTCTCTTCTGCACGAT
CCAATAGGAGACACCAGTTCTGACTGAACCATGCCCCACCTAAGTCACAAAATGAGGGAAGTGGGGAGTTAGAT
TTCAGAGTCCAGGCCCTAGGTTGGGACCCACTCCAAATAATCTCCTCGGTGTGGGTGGTGGTTCTATAGAGGGAT
AAATGAATAATAAACATTGTTAAATATAAAAAAAAAAAAAAAAAAAA

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FIGURE 6186

MADSERLSAPGCWAACTNFSRTRKGILLFAEIIILCLVILICFSASTPGYSSLSVIEMILAAIFFVVYMCDLHTKI
PFINWPWSDDFFRTLIAAILYLITSIVVLVERGNHISKIVAGVLGLIATCLFGYDAYVTFPVRQPRHTAAPTDPADG
PV

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FIGURE 6187

GAGCACGGAGCAGGGTTTCTACAGCTGCTCCCCACTTTCTCGGACCCGGTCTTGACCCAGCCCCGACTCCGAC
ACGGCTCCACCATGGAGGAGGCGGACCGAATCCTCATCCATTTCGCTGCGCCAGGCCGGCACGGCAGTTCTCCAG
ATGTGCAGACCTTGC GCGCCTTACCACTGAGCTGGTTGTAGAGGCTGTGGTCCGCTGCCTGCGTGTGATCAACC
CTGCGGTGGGCTCTGGCCTCAGCCCTCTGCTGCCTCTTGCCATGTCTGCCCCGGTTCCGCCTGGCCATGAGCCTGG
CTCAGGCCTGCATGGACCTGGGCTATCCCTTGGAGCTTGGCTATCAGAACTTCTCTACCCCACTGAGCCTGACC
TCCGAGACCTGCTTCTCTTCTTGGCTGAGCGCTGCCCCACCGATGCCCTCTGAGGATGCAGACCAGCCTGCAGGTG
ACTCAGCTATTCTCCTCCGGGCCATTGGGAGCCAAATTCGGGACCAGCTGGCACTGCCCTTGGGTCCCGCCCCACC
TTCGCACTCCCAAGCTGCAGCACCTCCAGGGCTCGGCCCTCCAGAAGCCTTTCCATGCCAGCAGGCTGGTCTGTC
CAGAATTGAGTTCCAGAGGTGAGCCACGGGAGTTCCAGGCGAGTCCCCCTGCTGCTTCCAGTCCCTACCCAGGTGC
CTCAGCCTGTTGGAAGGGTGGCCTCGCTCCTCGAACACCATGCCCTGCAGCTCTGCCAGCAGACGGGCCGGGACC
GGCCAGGGGATGAGGACTGGGTCCACCGGACATCCCGCTCCACCCAGGAGGACACACGGGCTCAGCGGCAGC
GGCTGCAAAAGCACTGACTGAGCATCTGCGCCAAAGCTGGGGCCTGCTTGGGGCCCCATACAAGCCCCGGGACC
TGGGAGAAGTGTGTCAGGCCTGGGGTGCTGGGGCCAAAGCTGGTGCTCTAAGGGCTCCCGCTTCACGCACTCAG
AGAAGTTCACCTTCCATCTGGAGCCCCAGGCCAGGCCACTCAGGTGTCAGATGTGCCAGCCACCTCCCGCGGC
CTGAACAGGTACGTGGGCAGCTCAGGAACAGGAGCTCGAGTCCCTTCGGGAGCAGCTGGAAGGAGTGAACCGCA
GCATTGAGGAGGTTGAGGCCGACATGAAGACCCTGGGCGTCAGCTTTGTGCAGGCAGAGTCTGAGTGCCCGCACA
GCAAGCTCAGTACAGCAGAGCGTGAGCAGGCCCTGCGCCTGAAGAGCCGCGCGGTGGAGCTGCTGCCGATGGGA
CTGCCAACCTTGCCAAGCTGCAGCTTGTGGTGGAGAATAGTGCCAGCGGGTCATCCACTTGGCGGGTCAGTGGG
AGAAGCACCGGGTCCCACTCCTCGCTGAGTACCGCCACCTCCGAAAGCTGCAGGATTGCAGAGAGCTGGAATCTT
CTCGACGGCTGGCAGAGATCCAAGAACTGCACCAGAGTGTCCGGGCGGCTGCTGAAGAGGCCCGCAGGAAGGAGG
AGGTCTATAAGCAGCTGATGTCAGAGCTGGAGACTCTGCCCAGAGATGTGTCCCGGCTGGCCTACACCCAGCGCA
TCCTGGAGATCGTGGGCAACATCCGGAAGCAGAAGGAAGAGATCACCAAGATCTTGTCTGATACGAAGGAGCTTC
AGAAGGAAATCAACTCCCTATCTGGGAAGCTGGACCGGACGTTTTCGGTGACTGATGAGCTTGTGTTCAAGGATG
CCAAGAAGGACGATGCTGTTTCGGAAGGCCTATAAGTATCTAGCTGCTCTGCACGAGAACTGCAGCCAGCTCATCC
AGACCATCGAGGACACAGGCACCATCATGCGGGAGGTTTCGAGACCTCGAGGAGCAGATCGAGACAGAGCTGGGCA
AGAAGACCCTCAGCAACCTGGAGAAGATCCGGGAGGACTACCGAGCCCTCCGCCAGGAGAAGCTGGCCTCCTAG
GCCGGGTCCGGGAGGCCTGAGGAGCCGCCGGCAGAGGTCTCTCCCAGCCTCAGGCAGGGATTGGGGTGCTGGA
GGCAGTGGCCAAGCACATGCCCTAGCTACTTCTCCGCTGTCCAGTTCCTCCTGCTGCGGCCTTGGACCCAGACC
CCTGCCCACTGACCGCAACCCTTATATGGGGTGATAGTCCAGCATGTGGGGAGCTCGGCTGCAGTTTATGGGGA
CGGTACTGTGGGTGGGGGCCCTGGATCCCAAATAAATGAGTAGTTCTCTGC

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FIGURE 6188

MEEADRILIHSLRQAGTAVPPDVQTLRAFTTELVEAVVRCLRVINPAVGSGLSPLLPLAMSAFRRLAMSLAQAC
MDLGYPLELGYQNFLYPSEPDRLDLLFLAERLPTDASEDADQPAGDSAILLRAIGSQIRDQLALPWVPPHLRTP
KLQHLQGSALQKPFHASRLVVPPELSSRGEPREFQASPLLLPVPTQVPQPVGRVASLLEHHALQLCQQTGRDRPGD
EDWVHRTSRLPPQEDTRAQRQRLQKQLTEHLRQSWGLLGAPIQARDLGELLQAWGAGAKTGAPKGSRFTHSEKFT
FHLEPQAQATQVSDVPATSRPEQVTWAAQEQELESLEQLEGVNRSIEEVEADMKT LGVSFVQAESECRHSLKLS
TAEREQALRLKSRVELLPDGTANLAKLQLVVENS AQRVIHLAGQWEKHRVPLLAEYRHLRKLQDCRELESSRRL
AEIQELHQSVRAAAEEARRKEEVYKQLMSELETLP RDVSR LAYTORILEIVGNIRKQKEEITKILSDTKELQKEI
NSLSGKLDRTFAVTDELVFKDAKKDDAVRKAYKYLAALHENCSQLIQTIEDTGTIMREVRDLEEQIETELGKKTL
SNLEKIREDYRALRQENAGLLGRVREA

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FIGURE 6189A

GGGCTGCTGTGCTGGCAGCAGTAGGCGAGGGCGCGGCTGCGGGGTTCTTGGTGCTGAGGACGGACGCCATTGGAG
TTCCCCGAGAAGATCCCGCCTCCCATTTGAATCCCGCCCCCTCCCCCTGCAGCTGCTTACCCTCCCTCTCAGGCTG
AGCTCTCATCTCCCTGGGAGCCCGCAGCATGGCTGAGGGAAGCTTCAGCGTGCAATCGGAAAGCTACAGTGTTGA
AGACATGGATGAGGGTAGCGACGAAGTCGGGGAGGAAGAGATGGTTGAAGGCAACGACTATGAAGAATTCGGTGC
GTTTGGTGGCTATGGCACCCCTCACCAGCTTTGACATCCATATCCTCAGAGCCTTCGGAAGCTTGGGTCCAGGCCT
TCGCATCTTATCGAATGAGCCCTGGGAACTGGAAAACCCCTGTGCTGGCCCAGACCCTGGTGGAGGCATTGCAGCT
GGATCCGGAAACACTTGCCAATGAGACGGCCGCCCGTGTGCTGCCAACGTAGCCCGCGCCGCCGCTCCAACCGTGC
GGCTCGGGCCGTGTCCGCCGTGCCCGTACCGCCTTCACTCAGGTGGTTCGCTAGCCACCGGGTGCCACGCCGCAG
GTCTCAGGAGAGGATACCCAGCCCACGACCTACGCCGCCGAGGTGAGGGGCCACCCCTGAGCACCCCTTGCTTC
TCCGACAGCCTCCAGATGTTAGTCACCAGTAAGATGGCTGCCCCGAGGCTCCGGCAACCTCCGCACAGTCCCA
GACAGGCTCCCCGGCCAGGAGGCTGCTACTGAGGGCCCTAGTAGCGCCTGTGCTTTCTCTCAGGCTCCGTGTGC
CAGGGAGGTGGACGCCAACCGGCCCCAGCACAGCCTTCTGGGCCAGAATGATGTCTTCGATTCACTCAGCCGGC
AGGTGTCACTGGCATGGCCTTCCCGCGCCCCAAGAGACCTGCCCCAGCCCAAGAGGCTGCCACAGAGGGGCCAG
TGCTGCCTCTGGTGTGCCCCAGACGGGACCTGGCAGGGAGGTGGCAGCCACCCGGCCCAAGACCACCAAGTCGGG
GAAGCGCTGGCCAAGACTCGGTGGGTGGAGCCTCAGAATGTTGTGGCAGCAGCTGCTGCCAAGGCCAAGATGGC
CACGAGCATCCCTGAGCCGGAGGGTGCAGCTGCTGCCACTGCTCAGCACAGTGCTGAGCCCTGGGCCAGGATGGG
AGGCAAGAGGACCAAGAAGGTGAGAGGGGATCCXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXCCTAGTCTGTGGGCAT
CCCTTTGCTTGCGTGCCACGGCTGGTCCCTCCATAGCCACAGGACGGGGTCTGGCTGCGTCACCCCTCGGCAGAG
CTTGACCAAGGGGCTACAGCTCTATGACCCCTGCTCAGCCAGGTGCTTTCTCCAACCTCTCCCCCTCCTGCAGA
CATGCTGAAGGATGTCTCAGAGAATATGATGAACATTTCCCTGAGATCATTGAACGAGCAACGTACACCCCTGGA
AAAGGTGGGTGCAGGATGGGAGCAGCTCTGTGGGGGAAGAGCGGGCATGGGGGTGCGGTGACCTGCAGCCCTC
AAGGCCAGTCTCTGGAGCCATCTCTACCTCTCCGACTCTGAGCTTCCACTGCACTGGCAGTTTGACTCGTGCT
TCCTGCCCTCGGCTTCTCTCTCTCATGCTCTCTGAGTGTCTCGCCGTCTGGCCAGGTGGGTCTATCGCCCTCTG
CAGCGTCAGCTCCACAGCGAAGGTCTTCCGTGTGCTGTCTTCTCTGCCCTCGCTCAGGATTTGGATTTCCTTG
CTGAGGAGCAGTTCTAACCCGGAATCACTGTCTGCCGGCAGGATGCCAGCATGGGGTTTGGATCTCACACTCTGT
TTTCTCCCCACGTAGAAGTTTGGGATCCACCTGAAGGAGATCGACAAGGAAGAACACCTGTATATTCTTGTCTG
CACACGGGACTCCTCAGCTCGCCTCCTTGAAAGTAAGAAGGACACTCCCGAGGCTGATCTCTTGGTGATCTC
GGCGTCATCTTCATGAATGGCAACCGTGCCAGCGAGGCTGTCTCTGGGAGGCACTACGCAAGATGGGACTGCGC
CCTGGGTATGATTGGCCTCTCCAGCTCCTCCCCCTCGGTGCTATCCTCTGGCCAAAGAGGTCTGGGATTGCAATA
GCCTGGTGGTCTGGCGCAAGGGCGTGGGGTGCCCTGGGCTCGGTAGAGAGCAAAGGATCTCACCAGGGCGGATGGG
GAAGCGGTGCTGGACGCTGCTCAGCCCTCTCTGCTCTGTGGCCCCAGATGACATCTAAGAGAGACAGTCAGAG
TCAGGGATTCCATCAAATCCCTACCTGGGGCGTCCCTGACCAACAGTCCTCTGGCCTCTGCTGCATGCCAGGCC
TCCACAGCGACTCCCCGGGGCTGGGAAGTCATAGTCATGTAGGGAGGGCCCCCTGCCACCGTCTCTGCTCATGG
ATTCTTTTCTTGGCCTCAGGGTGAGGCACCCATTCTCGGCGATCTGAGGAAGCTCATCACAGATGACTTTGTG
AAGCAGAAGTAAGTATACCTGAGCTAACTGCGGCTCTCACTCGAGCATCCTTTGTGTGCTGGTCTGGCTGAGAA
AGCAGTTCCCTATCCCAAATCTTCAACTGGAGGGATGGGTGCCCTCTGACCTGGGAGTGAGTGGCAGTGGGGGGTA
TGCGAGTGTGTGGGACCGAAGGCCAGGGCGGTCTTGGGAAAAGGGAGCTCACGTCACTGAGAACACGGTGTGG
GGTGTGAAAACGGCCGCCATCACCTTGAGCACCTGCCCTGTAGACTGACACAAGAGTTCCCCCTGGTTTACACCT
AAGGAACCCGGAGCTCAGAGAGGAGACGCTCTGAGCATGGCTCCAGCTGGTAAGGGCCTCAGCCCAACTCTCC
TGATTTTCAGGCCAGGGGCCACCCCTCTCCCGTCCCTGGAGGACTTGCCAACGCACAGGCGCGCATGCACACCA
CAAAGGGTCAGGACTTGAGGAGGATGCCTGGAGCACGCTTCTCTGGCTGACTGTTTCTTCTCTCCAGTCGTTT
CCTCTGGTGGGCCTCTCCAGGGCTCCGCCGGGTGTGGCCAAGACCCTCGAGGTGGGGTGTGCTCAGAGCAGGGG
GCCTGAAGAATGGCTCCTCTGTTTACAACACACCCAACAGGAAGCTGGGGTATCGTGATGAGGGGCACAAACTT
GTGGCCTCCCTACAGACAAATGCCCTACATGTGGACCCCTGCACCTCCGCAAGGCTTCCGGGGAGGACCAATGG
CAAAAGGCTTTGAAGGCCTCACTTTTGCAGGCAGAAGTCCTGGGAGTGGGTTTGGGAATGAGTGAAGGCTGGAG
GGGCAGGACAGTCTCTTCCAGGAGCTGAGCTGCGGCATCGGGTTGAGGAGGGGGCCCCCTGGAACCCATCCGTTT
AGCAACAGGTCTGCTTGGCTAGCAGCAAAGTTTACTTTCTCTCATGCCAAGGTACCTGGAATACAAGAAGATCC

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FIGURE 6189B

CCAACAGCAACCCACCTGAGTATGAATTCCTCTGGGCCTCGAGCCCGCCATGAGACCAGCAAGATGAGGGTCCTG
AGATTCATCGCCCAGAATCAGAACCGAGACCCCGGGAATGGAAGGCTCATTTCCTGGAGGCTGTGGATGATGCT
TTCAAGACAATGGATGTGGATATGGCCGAGGAACATGCCAGGGCCCAGATGAGGGCCCAGATGAATATCGGGGAT
GAAGCGCTGATTGGACGGTGGAGCTGGGATGACATACAAGTCGAGCTCCTGACCTGGGATGAGGACGGAGATTTT
GGCGATGCCTGGGCCAGGATCCCCCTTTGCTTTCTGGGCCAGATACCATCAGTACATTCTGAATAGCAACCGTGCC
AACAGGAGGGCCACGTGGAGAGCTGGCGTCAGCAGTGGCACCAATGGAGGGGCCAGCACCAGCGTCCTAGATGGC
CCCAGCACCAGCTCCACCATCCGGACCAGAAATGCTGCCAGAGCTGGCGCCAGCTTCTTCTCCTGGATCCAGCAC
CGTTGACGAACTGCAGCGATCTTACTGGCCAAGCCAGAGCGCCTCCTCTCAGATTCTTCTCGACACAGCACCCCT
AGGCGGCTTCTTCTGTCAGTCGGAGGTGGCATGCAAGATGAAGCTCTCTTTGCTCTTCTGCTTTTCATTTTGTG
CTTTTCCTTGTTGTTTTTCATGTTTTGGGTATCAGTGTTACATTAAAGTTGCAAAATTAA

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FIGURE 6190

CCCATCCCGTGGGTGGCCGGCGACAAGATGGCAGCAGCGTGTCCGAGCGTGAAGGGCCTGGTGGCGGTAATAACC
GGAGGAGCCTCGGGCCTGGGCCTGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGCTTCTGGAC
CTGCCCAACTCGGGTGGGGAGGCCCAAGCCAAGAAGTTAGGAAACAACCTGCGTTTTTCGCCCCAGCCGACGTGACC
TCTGAGAAGGATGTGCAAACAGCTCTGGCTCTAGCAAAAGGAAAGTTTGGCCGTGTGGATGTAGCTGTCAACTGT
GCAGGCATCGCGGTGGCTAGCAAGACGTACAACCTTAAAGAAGGGCCAGACCCATACCTTGAAGACTTCCAGCGA
GTTCTTGATGTGAATCTCATGGGCACCTTCAATGTGATCCGCCTGGTGGCTGGTGAGATGGGCCAGAATGAACCA
GACCAGGGAGGCCAACGTGGGGTCATCATCAACACTGCCAGTGTGGCTGCCTTCGAGGGTCAGGTTGGACAAGCT
GCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGACACTGCCCCATTGCTCGGGATCTGGCTCCCATAGGTATC
CGGGTGATGACCATTGCCCCAGGTCTGTTTGGCACCCCACTGCTGACCAGCCTCCCAGAGAAAGTGTGCAACTTC
TTGGCCAGCCAAGTGCCCTTCCCTAGCCGACTGGGTGACCCTGCTGAGTATGCTCACCTCGTACAGGCCATCATC
GAGAACCATTCTCAATGGAGAGGTCATCCGGCTGGATGGGGCCATTTCGTATGCAGCCTTGAAGGGAGAAGGCA
GAGAAAACACACGCTCCTCTGCCCTTCCCTTCCCTGGGGTACTACTCTCCAGCTTGGGAGGAAGCCCAGTAGCCA
TTTTGTAAGTGCCTACCAAGTCGCCCTCTGTGCCTAATAAAGTCTCTTTTCTCACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6191

MAAACRSVKGLVAVITGGASGLGLATAERLVGQGASAVLLDLPNSGGEAQAKKLGNNCVFAPADVTSEKDVQTAL
ALAKGKFGRVDVAVNCAGIAVASKTYNLKKGQHTLTLEDFQRVLDVNLMGTFNVIRLVAGEMGQNEPDQGGQRGVI
INTASVAAFEGQVGQAAYSASKGGIVGMTLPIARDLAPIGIRVMTIAPGLFGTPLLTSLEKVCNFLASQVPFPS
RLGDPAEYAHLVQAIENPFLNGEVIRLDGAIRMQP

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FIGURE 6192A

GCCTGTCCTACTGCCGCCGGCGCCGGCCCGTCAATGGGGTTCCTGAAACTGATTGAGATTGAGAACTTTAAGTCG
TACAAGGGTCGACAGATTATCGGACCATTTTCAGAGGTTACCGCCATCATTGGACCCAATGGCTCTGGTAAGTCA
AATCTCATGGATGCCATCAGCTTTGTGCTAGGTGAAAAACCAGCAACCTGCGGGTAAAGACCCTGCGGGACCTG
ATCCATGGAGCTCCTGTGGGCAAGCCAGCTGCCAACCGGGCCTTTGTGAGCATGGTCTACTCTGAGGAGGGTGCT
GAGGACCGTACCTTTGCCCCGTGTCATTGTAGGAGGTTCTTCTGAGTACAAGATCAACAACAAAGTGGTCCAAC
CATGAGTACAGTGAGGAATTAGAGAAGTTGGGCATTCTCATCAAAGCTCGTAACTTCTCGTTTTCCAGGGTGCT
GTGGAATCTATTGCCATGAAGAACCCCAAAGAGAGGACAGCTCTATTTGAAGAGATTAGTCGTTCTGGGGAGCTG
GCGCAGGAGTATGACAAGCGAAAGAAGGAAATGGTGAAGGCTGAAGAGGACACACAGTTTAATTACCATCGCAAG
AAAAATATTGCGGCTGAACGCAAGGAAGCAAAGCAGGAGAAAGAAGAGGCTGACCGGTACCAGCGCTGAAGGAT
GAGGTAGTACGGGCTCAGGTACAGCTGCAGCTCTTTAAGCTTTACCATAATGAAGTGGAAATTGAGAAGCTCAAC
AAGGAAGTGCCTCAAAGAACAAGGAGATCGAGAAGGACAAGAAGCGTATGGACAAGGTGGAGGATGAAGTGAAG
GAGAAGAAGAAGGAGCTGGGCAAAATGATGCGGGAGCAGCAGCAGATTGAGAAGGAGATCAAGGAGAAGGACTCA
GAATTGAACCAGAAGCGGCCTCAGTACATCAAAGCCAAGGAGAACACCTCCACAAAAATCAAGAAGCTGGAAGCA
GCCAAGAAGTCTCTGCAGAAATGCTCAGAAGCACTACAAGAAGCGTAAAGGTGACATGGATGAGCTGGAGAAGGAG
ATGCTGTCTAGTGGAGAAGGCTCGGCAGGAGTTTGAAGAACGGATGGAAGAAGAGAGTCAGAGTCAGGGCAGAGAT
TTGACGTTGGAGGAGAATCAGGTGAAGAAATACCACCGGTTGAAAGAAGAAGCCAGCAAGAGAGCAGCTACCTG
GCCCAGGAGCTGGAGAAATTCATTCGAGACCAGAAAGCTGACCAGGACCGTCTGGATCTGGAAGAACGGAAGAAA
GTAGAGACAGAGGCCAAGATCAAGCAAAAGCTGCGGGAAATTGAAGAGAATCAGAAGCGGATTGAGAACTGGAG
GAATACATCACCACTAGCAAGCAGTCCCTAGAAGAGCAGAAGAAGCTAGAGGGGAGCTGACAGAGGAGGTGGAG
ATGGCCAAGCGCGTATTGATGAAATCAATAAGGAGCTGAACCAGGTGATGGAGCAGCTAGGGGATGCCCGCATC
GACCGCCAGGAGAGCAGCCGCCAGCAGCGAAAGGCAGAGATAATGGAAAGCATCAAGCGCCTTTACCCTGGCTCT
GTGTACGGCCGCTCATTTGACCTATGCCAGCCCACAAAAAGAAGTATCAGATTGCTGTAAACCAAGTTTTGGGC
AAGAACATGGATGCCATTATTGTGGACTCGGAGAAGACAGGCCGGGACTGTATTAGTATATCAAGGAGCAGCGT
GGGGAGCCTGAGACCTTCTTGCCCTTGACTACCTGGAGGTGAAGCCTACAGATGAGAACTCCGGGAGCTGAAG
GGGGCCAAGCTAGTGATTGATGTGATTGCTATGAGCCACCTCATATCAAAAAGGCCCTGCAGTATGCTTGTGGC
AATGCCCTTGCTGTGACAACGTGGAAGATGCCCCGCCGATTGCTTTGGAGGCCACCAGCGCCACAAGACAGTG
GCACTGGATGGAACCTATTCCAGAAGTCAGGAGTGATCTCTGGTGGGGCCAGTGACCTGAAGGCCAAGGCACGG
CGCTGGGATGAGAAAGCAGTAGACAAGTTGAAAGAGAAGAAGGAGCGCTTGACAGAGGAGCTGAAAGAGCAGATG
AAGGCAAAACGGAAGAGGCAGAGCTGCGTCAGGTGCAGTCTCAGGCCATGGACTGCAGATGCGGCTCAAGTAC
TCCAGAGTGACCTAGAACAGACCAAGACACGACATCTAGCCCTGAATCTGCAGGAAAAATCCAAGCTGGAGAGT
GAGCTAGCCAACCTTTGGGCCTCGCATTAAATGATATCAAGAGGATCATTAGAGCCGAGAGAGGGAAATGAAAGAC
TTGAAGGAGAAGATGAACCAGGTAGAGGATGAGGTGTTTGAAGAGTTTTGTGCGGAGATTGGTGTGCGCAACATC
CGGGAGTTTGAGGAAGAAAAGGTGAAACGGCAGAATGAAATCGCCAAGAAGCGTTTGGAGTTTGAGAATCAGAAG
ACTCGCTTGGGCATTAGTTGGATTTTGAAGAAGAACCAACTGAAGGAGGACCAAGATAAAGTACACATGTGGGAG
CAGACAGTGAAAAAGATGAAAATGAGATAGAAAAGCTCAAAAAGGAGGAACAAAGACACATGAAGATCATAGAT
GAGACCATGGCTCAGCTACAAGACCTGAAGAATCAGCATCTGGCCAAGAAGTCGGAAGTGAATGACAAGAATCAT
GAGATGGAGGAGATTGTAAGAAACTCGGGGGCGCCAAAGGAAATGACCCATTTACAGAAGGAGGTGACAGCC
ATTGAGACCAAGCTTGAACAGAAGCGCAGTGACCGTCACAACTTGCTACAGGCCTGTAAGATGCAGGACATTAAG
TTGCCACTGTCAAAAGGCACCATGGATGATATTAGTCAGGAAGAGGGTAGCTCCCAGGGGGAGGACTCAGTGAGT
GGTTCACAGAGAATTTCCAGTATCTATGCACGAGAGGCCCTCATTGAGATTGACTACGGTGATCTGTGTGAGGAT
CTGAAGGATGCCAGGCTGAGGAAGAGATCAAGCAAGAGATGAACACACTGCAGCAGAAGCTGAATGAGCAGCAG
AGTGTGCTTCAGCGTATTGCGCGCCCCAACATGAAGGCCATTGAAAAGCTGGAAAAGTGTCCGAGACAAGTTCCAG
GAGACCTCAGATGAGTTTGAAGCAGCCGAAAGCGAGCAAGAAGGCCAAGCAGGCATTGGAACAGATCAAGAAG
GAGCGCTTTGACCGCTTCAATGCTTGTGTTTGAATCTGTGGCTACCAACATTGATGAGATCTATAAGGCCCTGTCC
CGCAATAGCAGTGCCAGGCATTTCCTGGGCCCTGAGAACCTGAAGAGCCCTACTTGGATGGCATCAACTACAAC
TGTGTGGCTCCTGGGAAACGCTTCCGGCCTATGGACAATTGTGAGCGGGGAGAAAGACAGTGGCAGCTCTGGCC
CTGCTCTTTGCCATCCACAGCTACAAGCCAGCCCCCTTCTTCGTCCTGGATGAGATTGATGCTGCCTTGGATAAC
ACCAACATTGGCAAGGTGGCAAATTACATCAAGGAGCAGTCGACTTGCAACTTCCAGGCCATCGTCATCTCTCTC

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FIGURE 6192B

AAGGAGGAGTTCTACACCAAGGCCGAGAGCCTCATTGGAGTCTATCCTGAGCAAGGGGACTGTGTGATCAGCAAA
GTCCTGACCTTCGACCTCACCAAGTACCCAGATGCCAACCCCAACCCCAATGAGCAGT**TAC**CAGTATTTTGGCCCT
CCCGCCCTGTCTGGATCCCTAAGCTGTCCCTCTCCCAATCTCTGGATATTTGACTCCCAACCTTCCCCCTACCTC
CTGGCCCTTTTTGGTGTAGTCATGGGATTTAGGCACTGCTAATCAAGCATGAAGAGGAACAGAGGTGATGTTAGG
TCTGGAGCAAAAATTCCTGAACGACAGGGAGTATTCTGGCCTCTGAAAGGAGGTGCTGAGCTGAACAGGGCCATC
TGTTTCATCACACACACCCCTTCCCTCCCCCTCATCACCCATAATCGTGGGCCCTTGGGCCTCTTGCCCACTGTG
TGTGTGGGTATGTATGTGTGTATGTATGTATCCGCATGTGTGCATGTGAGTATGTTTGCAAAATAATAAAGGATA
TTGGAGACCTGTTTTAGAAGGAGCCTAGGCTGAATTTGATTCCAAGAGAGCTTAGGATGACAGCACCCCTGAGCT
GGGCAAAGGTACTCAGGACCTCATAGGAGTCTTAGGCAGTTACCTGAAACTGCCTTCATTCACTCATTTGTGTAT
TCATTCATTTATGTATTTCATCAGACACATACCGAACACCCCTCTATTTGTCAGGCTCTGTGCTTGGAATACAGAGT
TGAATCAGACATGATCTCTACCCCTCCTAGTAAGGAGATACAGTGGGTTTCATGAATGACTATAGTTAGCTGAATGT
CATATGTACTTTGAATTTGAGAAGTGGGTGATCCCTCTAGGCTTCCTGGAGGTCACATTTAAGCTAGACCTTGA
CAAATTGGTAGGATTTGGTCAGGCACTAGGAGTGGAGCATGAGCTCTGGGGACAGACAGTTATGGGTTCTGGTCC
CACTTTTTATCACTTACTAGTTGTTTGACCTTGGGCAAGTCATTTGACCTTCTGTGCCTCAGTTTCCTCATCTGT
AAAATGGGGCTAACAATATTACCTACCTCATAGGATTTAATGATGTCAAGCTCCTCACTGGAGGCCTTATCCCTT
CGTGGAGCCCACTAGGTGCCGACCCCTCAGAATATAACCCCTCATGCCTGGACCCCTGAGAGCTTCTGATCCCAGC
TATTAGGGACAGAAGAAGCCTCCAAATCTGGAAGGTGCTGAATGCCCTGCTGACTGGGAAAGTTTCAGGGCACTG
ATGGGGTCTACCTGGTAAGCGGAGGGCCTGAGGAAACCTGTAGCTTCAATCATGTCTGGTAACCGGGTGCCTGAG
CCCCAATCTGGGTTGTGAGGAAATAGGGGAGAGGTATCCTGGGCCACATCCAGCCTAACACCTGTGAGGTTTCAT
TTTAGGAATAACCTCATTAGCTATAAGGATCATGCAGAGGCAGCAAAGCCGGGTGCGATGAGCTCAGCCTTTAC
TCATTCACATACACCATCACACTTTAATTCCAATCTGTATATTGCTTTTTAAAGTTAAGTCCATTCTAATTACC
CAAATATGCATGAATTC

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FIGURE 6193

MGFLKLIIEENFKSYKGRQIIIGPFQRFRTAIIGPNGSGKSNLMDAISFVLGEKTSNLRVKTLRDLIHGAPVGPAA
NRAFVSMVYSEEGAEDRTFARVIVGGSSEYKINNKKVQLHEYSEELEKLGILIKARNFLVFQAVESIAMKNPKE
RTALFEEISRSGELAQEYDKRKKEMVKAEDTQFNYHRKKNIAAERKEAKQEKEEADRYQRLKDEVVRAQVQLQL
FKLYHNEVEIEKLNKELASKNKEIEKDKKRMDELEKEKKELGKMMREQQIEKEIKEKDESLNQKRPQYIK
AKENTSHKIKKLEAAKKSLONAQKHKKRGDMDELEKEMLSVEKARQEFEEERMEEESQSQGRDLTLEENQVKY
HRLKEEASKRAATLAQELEKFNRDQKADQDRDLLEERKKVETEAQIKQKLREIEENQKRIELEYITTSKQSL
EQKKLEGEELTEEVEMAKRRIDEINKELNQVMEQLGDARIDRQESSRQQRKAEIMESIKRLYPGSVYGRIDLDCQP
TQKKYQIAVTKVLGNMDAIIVDSEKTGRDCIQYIKEQRGEPETFLPLDYLEVKPTDEKLRELKAKLVIDVIRY
EPPHIKKALQYACGNALVCDNVEDARRIAFGGHQRHKTVALDGTLFQKSGVISGGASDLKAKARRWDEKAVDKLK
EKKERLTEELKEQMKAKRKEAELRQVQSQAHLQMLKYSQSDLEQTKTRHLALNLQEKSKLESELANFGPRIND
IKRIIQSREREMKDLKEKMNQVEDEVFEEFCREIGVRNIREFEEKVKRQNEIAKKRLEFENQKTRLGIQLDFEK
NQLKEDQDKVHMWEQTVKKDENEIEKLLKKEEQRHMKIIDETMAQLQDLKNQHLAKKSEVNDKNHEMEEIRKKLGG
ANKEMTHLQKEVTAIETKLEQKRSRHNLLQACKMQDIKLPLSKGTMDDISQEEGSSQGEDSVSGSQRISSYAR
EALIEIDYGDLCEDLKDAQAEIEIKQEMNTLQOKLNEQQSVLQRIAAPNMKAMEKLESVRDKFQETSDEFEAARK
RAKKAKQAFEQIKKERFDRFNACFESVATNIDEIYKALSRNSSAQAF LGPENPEEPYLDGINYNVAPGKRFRPM
DNLSSGGEKTVAALALLFAIHSYKPAPFFVLDEIDAALDNTNIGKVANYIKEQSTCNFQAIVISLKEEFYTKAESL
IGVYPEQGDCVISKVLTFDLTKYPDANPNPNEQ

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FIGURE 6194

CCGGGACGTCACGTGGACTGGGGCCGGATAATGCGGGGCGCTGCAGAAGATGCGCGAGCTCTTTTCCGGGCTGGG
GTCTGCGCGGCCCTGGAGGCCCTGGCCGGCCTTGCGAGATCGCTGTGGAGAATGGCTTCGGGGGTGTGCACAGCCAG
GAGAAGGCCAAGTGGCTGGGGGGTGCAGTGGAGGATTACTTCATGCGCAATGCTGACTTGGAGCTAGATGAGGTG
GAAGACTTCCTTGGAGAGCTGTTGACCAACGAGTTTGATACAGTTGTGGAAGACGGGAGTCTGCCCCAGGTGAGC
CAGCAACTGCAGACCATGTTCCACCACTTCCAGAGGGGTGATGGGGCTGCTCTGAGGGAGATGGCCTCCTGCATC
ACTCAGAGAAAATGCAAGGTCACAGCCACTGCACTTAAGACAGCTAGAGAGACTGATGAGGATGAAGATGATGTG
GACAGTGTGGAAGAGATGGAGGTCACAGCTACGAATGATGGGGCTGCTACAGATGGGGTCTGCCCCAGCCTGAA
CCCTCTGATCCAGACGCTCAGACTATTAAGGAAGAGGATATAGTGGGAAGATGGCTGGACCATTGTCCGGAGAAAA
AAATGAGTGGGGATGATTGGAAATGGCTTTGGGCCCTTATTTGCTGTTCTAAGAGTTGTCTGTAGGGGTTTTTTT
TTTGAGGATTGCAGACCTGTGGACTGGTTACCCCATCTCCACCCTCTCCCCTGTTCTCTGTCTGGCTCCCTCCA
GGGCAAGGAAAACCTAGGGTCCTTGGTCTTGGGGGTGGGGGGACCTTTCCAGCATATTTCCCTGGGCCTTTAGT
TAACATCCGAGTGACGAAGCCGGGTTCCTCCAGTACAGTGTCTTTTGGGTGCGGTCATTGTGAGGAAGGGGATGAG
TGAGTGTGGGTGTGGCTGGAGGAGGAGCTAGATGCCGGTGGACAGTGGGCAGGTGGATTGGGGAGGAGAGGATC
AGCAGCAGCAGCAGTACTCAGTGATAGGGGGCTGGCTGGGTGAGGAATGGTGAGATGAACATGCAAGTGAAGAG
AGAATAGTTGAAAATGTGAATGAAAGTAGCTCTGGAGCCTCTCCCTTACCCACCCACACACACGCAACAGCTC
TGTACCCCTGCCCAGAACTTGGAACCTCCCAGGAATGCTGCCTTCCTTCAGCCCAGCCTCCAGTCTCTGGGTTCCT
TCAGGAATTCGAAGACCTTGGCTAGGTGGTGAGCTTGAAGAGCTGGGCTTTGTTTTCTGTCTCCTCTAACCTCT
TTCCTTACTCCTTATCCCATCCCATTTGAGTTCAGGGGTGAGGCTTAAGATCTTAATAAATAATACCTTACTGCT
TAATCTGTGGCTTGACCTGTGAGTAGTAGCCTTAGAATCAGCCTTCTGGGAGCTCAGCTTCAGAGTTTACAAGGG
AGCAGTTTCTGGGCCCCACCCTAGCAGCCTGGTACTTTGGACAACCAAACAGATGAACGAACGGAGCACAGCAGTG
CTATGAAAGTTACTGTAAGCCTGAAATAAACTGTATTTTCT

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FIGURE 6195

MAGAAEDARALFRAGVCAALEAWPALQIAVENGFGGVHSQEKAKWLGGAVEDYFMRNADLELDEVEDFLGELLTN
EFDTVVEDGSLPQVSQQLQTMFHHFQRGDGAALREMA SCITQRKCKVTATALKTARETDEDEDVDVSVEEMEVT
TNDGAATDGVCPQPEPSDPDAQTIKEEDIVEDGWTIVRRKK

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FIGURE 6196

GATCCGGAAGTCGGAGCCTAGCTGCGGAGAGTTTCTGCTCGCTCAACCGAGTTGTCGTGTTGCCCTCGCTTCTC
AGATCCCCGCCGGAAGTGAAGAGAGCAAGCAGATTTGAACCTATCTGCTTTCAAGCTGGTCATCATGATGAACT
TAGACACAAAAATAAAAAGCCAGGTGAAGGTTCCAAGGGCCACAAGAAGATAAGTTGGCCCTACCCTCAGCCTGC
AAAGCAAAATGGGAAGAAAGCAACCTCCAAAGTGCCCTCTGCACCTCATTTTGTTCACCCCAATGATCATGCCAA
TCGAGAGGGTGAATTAAAGAAGAGTGGGTTGAGGAGATGAGGGAGAAGCAGCAAGCCGCCCCGGGAGCAAGAAAG
ACAAAACGCAGGACCATTGAGAGCTACTGTCAGGATGTCCTAAGACGCCAGGAGGAGTTTGAGCATAAGGAGGA
AGTTTTGCAGGAATTAAATATGTTTCCTCAGCTGGATGACGAGGCCACGAGGAAGGCTTATTACAAGGAGTTCCG
TAAGGTGGTGAATACTCTGATGTGATTCTGGAAGTCTGGATGCCAGAGACCCATTAGGCTGCCGCTGCTTCCA
AATGGAGGAGGCTGTCTGCGAGCACAAGGCAACAAGAAGCTGGTCTTGAACAAGATTGACCTGGTCCC
CAAGGAGGTTGTGGAGAAATGGCTGGATTACCTTCGGAATGAGTTGCCAACCGTGGCTTTCAAGGCCAGTACCCA
GCATCAGGTCAAAAACCTGAATCGTTGCAGTGTGCCAGTAGATCAGGCCTCTGAGTCACTGCTGAAAAGCAAAAGC
CTGCTTTGGAGCTGAAAACCTCATGAGGGTTCTGGGGAACCTATTGCCGCTTGGTGAAGTGCACCCACATTTCG
TGTGGGTGTTGTGGGTCTTCCCAATGTTGGGAAGAGCAGCCTGATCAATAGCCTGAAGCGCAGCCGCGCATGCAG
CGTGGGAGCTGTTCTTGAATTACCAAATTCATGCAGGAGGTCTACCTGGACAAGTTTCATCCGGCTCTTGGATGC
TCCAGGCATTGTCCCAGGGCCCAACTCAGAGGTGGGCACCATCTGCGTAACTGCGTCCACGTGCAGAAGCTGGC
AGACCTGTGACCCAGTGGAGACCATCCTGCAGCGCTGCAACCTGGAGGAGATTTCACCACTATTATGGCGTCTC
TGGGTTCCAGACCACTGAGCACTTTCTGACGGCAGTGGCCACCGTTTGGGGAAGAAGAAGAGGAGGCTTATA
TAGTCAGGAACAGGCGGCCAAAGCTGTCTAGCTGACTGGGTGAGCGGGAAGATCAGCTTCTATATACCACCACC
AGCCACTCACACTCTGCCCACCCATCTCAGTGCTGAGATCGTTAAGGAAATGACCGAGGTCTTTGACATCGAGGA
TACTGAGCAGGCCAATGAAGACACCATGGAATGCTTGCCACCGGAGAATCTGATGAGCTGTTGGGTGACACGGA
CCCCTTGAAATGGAGATCAAGTTGCTCCATTCTCCGATGACGAAAATAGCAGATGCCATTGAAAATAAAACCAC
CGTGTATAAGATTGGAGATCTCACTGGGTATTGCACCAATCCGAACCGTTCATCAGATGGGGTGGGCTAAACGCAA
TGTGGACCACCGCCCTAAGAGCAACAGTATGGTGGATGTCTGCTCAGTGGACCGCGCTCAGTGTGCAGAGGAT
CATGGAGACGGACCCCTGCAACAGGGCCAGGCTCTGGCATCTGCCCTGAAAATAAGAAGAAGATGCAGAAACG
TGCAGATAAAATCGCCAGCAAGCTGTCTGATTCCATGATGTCTGCTCTCGACCTCTCTGGCAATGCTGATGATGG
TGTTGGTGACTAATCGACTGATCTCACTTCCCTTCCGCTCCAAGCACCAGTTCCGGTGGTACGGGGGAATACCAG
TGAAATAGTTTGGTTCTCCCTGAAGCATCTGCATATTGAAAGAACGCTTTCCCACTGTGTGTCTTCTCCCCCTC
CTCCAGTAAAAACAGTCCCGGCTAGGTGCTGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGG
CAGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAA
AAAATTTAGCCGTGCTTAGTGGCACCTATAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCCTGAACCT
GGGAGACTAAGGCAGGAGAATCGCCTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAGACGGCACCATTGCACT
CTAGCCTGGGCAACAACACGAACTCCGTCCC

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FIGURE 6197

TAGAGAAGGCAGACGCATCCCGAACTCGCTGGAGGACAAGGCTCAGCTCTTGCCAGGCCAAATTGAGACATGTCT
GACACAAGCGAGAGTGGTGCAGGTCTAACTCGCTTCCAGGCTGAAGCCTCAGAAAAGGACAGTAGCTCGATGATG
CAGACTCTGTTGACAGTGACCCAGAATGTGGAGGTCCCAGAGACACCGAAGGCCTCAAAGGCACTGGAGGTCTCA
GAGGATGTGAAGGTCTCAAAAGCCTCTGGGGTCTCAAAGGCCACAGAGGTCTCAAAGACCCCAGAGGCTCGGGAG
GCACCTGCCACCCAGGCCTCATCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAGCTGAAAACAAGAGTCTA
GCAGCTGACACCAAGAAACAGAATGCTGACCCGCAGGCTGTGACAATGCCTGCCACTGAGACCAAAAAGGTGAGC
CATGTGGCTGATACAAAGGTCAATACAAAGGCTCAGGAGACTGAGGCTGCACCCTCTCAGGCCCCAGCAGATGAA
CCTGAGCCTGAGAGTGACAGCTGCCCAGTCTCAGGAGAAATCAGGATACTCGGCCCCAAGGTCAAAGCCAAGAAAGCC
CGAAAGGTGAAGCATCTGGATGGGGAAGAGGATGGCAGCAGTGATCAGAGTCAGGCTTCTGGAACACAGGTGGC
CGAAGGGTCTCAAAGGCCCTAATGGCTCAATGGCCCCGAGGGCTTCAAGGGGTCCCATAGCCTTTTGGGCCCCG
AGGGCATCAAGGACTCGGTTGGCTGCTTGGGCCCCGAGAGCCTTGCTCTCCCTGAGATCACCTAAAGCCCCGTAGG
GGCAAGGCTCGCCGTAGAGCTGCCAAGCTCCAGTCATCCCAAGAGCCTGAAGCACCACCCTCGGGATGTGGCC
CTTTTGCAAGGGAGGGCAAATGATTTGGTGAAGTACCTTTTGGCTAAAGACCAGACGAAGATTCCCATCAAGCGC
TCGGACATGCTGAAGGACATCATCAAAGAATACACTGATGTGTACCCCGAAATCATTGAACGAGCAGGCTATTCC
TTGGAGAAGGTATTTGGGATTCAATTGAAGGAAATTGATAAGAATGACCACTTGTACATTCTTCTCAGCACCTTA
GAGCCCACTGATGCAGGCATACTGGGAACGACTAAGGACTCACCCAAGCTGGGTCTGCTCATGGTGCTTCTTAGC
ATCATCTTCATGAATGGAAATCGGTCCAGTGAGGCTGTGATCTGGGAGGTGCTGCGCAAGTTGGGGCTGCGCCCT
GGGATACATCATTCACTCTTTGGGGACGTGAAGAAGCTCATCACTGATGAGTTTGGAAGCAGAAGTACCTGGAC
TATGCCAGAGTCCCCAATAGCAATCCCCCTGAATATGAGTTCTTCTGGGGCCTGCGCTCTTACTATGAGACCAGC
AAGATGAAAGTCCTCAAGTTTGCTGCAAGGTACAAAAGAAGGATCCCAAGGAATGGGCAGCTCAGTACCGAGAG
GCGATGGAAGCGGATTGAAGGCTGCAGCTGAGGCTGCAGCTGAAGCCAAGGCTAGGGCCGAGATTAGAGCTCGA
ATGGGCATTGGGCTCGGCTCGGAGAATGCTGCCGGGCCCTGCAACTGGGACGAAGCTGATATCGGACCCCTGGGCC
AAAGCCCGGATCCAGGCGGGAGCAGAAGCTAAAGCCAAAGCCCAAGAGAGTGGCAGTGCCAGCACTGGTGCCAGT
ACCACTACCAATAACAGTGCCAGTGCCAGTGCCAGCACCAGTGGTGGCTTCAGTGCTGGTGCCAGCCTGACCGCC
ACTCTCACATTTGGGCTCTTCGCTGGCCTTGGTGGAGCTGGTGCCAGCACCAGTGGCAGCTCTGGTGCCCTGTGGT
TTCTCCTACAAGTCAGATTTTAGATATTGTTAATCCTGCCAGTCTTTCTCTCAAGCCAGGGTGCATCCTCAGAA
ACCTATCCAACACAGCACTCTAGGCAGCCACT

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FIGURE 6198

MSDTSESGAGLTRFQAEASEKDSSSMQTLTQVLAENKSLAADTKKQADPQAVTMPATETKKVSHVADTKVNTKAQETEAAPSQAPA
REAPATQASSTTQLTDTQVLAENKSLAADTKKQADPQAVTMPATETKKVSHVADTKVNTKAQETEAAPSQAPA
DEPEPESAAAQSQENQDTRPKVKAKKARKVKHLDGEEDGSSDQSQASGTTGGRRVSKALMASMARRASRGPIAFW
ARRASRTRLAAWARRALLSLRSPKARRGKARRRAAKLQSSQEPEAPPPRDVALLOGRANDLVKYLLAKDQTKIP
KRSDMLKDIKEYTDVYPEIIRAGYSLEKVFQIQLKEIDKNDHLYILLSTLEPTDAGILGTTKDSPKLGLLMVL
LSIIFMNGNRSSEAVIWEVLRKLGRLPGIHHSLFGDVKKLITDEFVKQKYLDYARVPNSNPPEYEFFWGLRSYYE
TSKMKVLKFACKVQKKDPKEWAAQYREAMEADLKAAAEAAAEAKARAEIRARMGIGLGSENAAGPCNWDEADIGP
WAKARIQAGAEAKAKAQESGSASTGASTSTNNSASASASTSGGFSAGASLTATLTGFLFAGLGGAGASTSGSSGA
CGFSYK

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FIGURE 6199

TGGCCAACTTCTGAACAGGAAGCAGTTCGCTCGCGCCTAGGTTGGCGCGGGCTGGGAGGTGTTCCAGCCCTTTAA
GATGTTGCGCGTGGTGAGCTGGAACATCAATGGGATTGGGAGACCCCTGCAAGGGGTGGCAAATCAGGAACCCAG
CAACTGTGCCGCCGTGGCCGTGGGGCGCATTTTGGACGAGCTGGATGCGGATATCGTCTGTCTCCAGGAAACCAA
AGTGACCAGGGATGCACTGACAGAGCCCCCTGGCTATCGTTGAGGGTTATAACTCCTATTTTCAGCTTCAGCCGCAA
CCGTAGCGGCTATTCTGGTGTAGCCACCTTCTGTAAGGACAATGCTACCCAGTGGCTGCTGAAGAAGGCCTGAG
TGGCCTGTTTGCCACCCAGAATGGGGATGTTGGTTGCTATGGAAACATGGATGAGTTTACCCAAGAGGAACCTCCG
GGCTCTGGATAGTGAGGGCAGGGCCCTCCTCACACAGCATAAGATCCGCACATGGGAAGGTAAGGAGAAGACCTT
GACCCTAATCAACGTGTACTGCCCCATGCGGACCCTGGGAGGCCTGAGCGGCTAGTCTTTAAGATGCGCTTCTA
TCGTTTGCTGCAAAATCCGAGCAGAAGCCCTCCTGGCGGCAGGCAGCCATGTGATCATTCTGGGTGACCTGAATAC
AGCCCACCGCCCCATTGACCACTGGGATGCACTGCAACCTGGAATGCTTTGAAGAGGACCCAGGGCGCAAGTGGAT
GGACAGCTTGCTCAGTAACTTGGGGTGCCAGTCTGCCTCTCATGTAGGGCCCTTCATCGATAGCTACCGCTGCTT
CCAACCAAAGCAGGAGGGGGCCTTACCTGCTGGTCAGCAGTCACTGGCGCCCGCCATCTCAACTATGGCTCCCG
GCTTGACTATGTGCTGGGGGACAGGACCCTGGTCATAGACACCTTTCAGGCCTCTTTCCTGCTGCCTGAGGTGAT
GGGCTCTGACCACTGCCCTGTGGGTGCAGTCTTGAGTGTGCTCCTCTGTGCCTGCAAAACAGTGCCCACTCTGTG
CACCCGCTTCCTCCCTGAGTTTGACGGCACCCAGCTCAAGATCCTTCGCTTCCTAGTTCCTCTCGAACAAGTCC
TGTGTTGGAGCAGTCGACGCTGCAGCACAACAATCAAACCCGGGTACAGACATGCCAAAACAAAGCCCAAGTGCG
CTCAACCAGGCCTCAGCCAGTCAGGTTGGCTCTAGCAGAGGCCAGAAAAACCTGAAGAGCTACTTTCAGCCCTC
CCCTAGCTGTCCCCAAGCCTCTCCTGACATAGAGCTGCCTAGCCTACCACTGATGAGCGCCCTCATGACCCCGAA
GACTCCAGAAGAGAAGGCAGTGGCCAAAGTGGTGAAGGGGCAGGCCAAGACTTCAGAAGCCAAAGATGAGAAGGA
GTTACGGACCTCATTCTGGAAGTCTGTGCTGGCGGGGCCCTTGCGCACACCCCTCTGTGGGGGCCACAGGGAGCC
ATGTGTGATGCGTACTGTGAAGAAGCCAGGACCCAACCTTGGGCCGCCGCTTCTACATGTGTGCCAGGCCCCGGGG
TCCTCCCACTGACCCCTCCTCCCGGTGCAACTTCTCCTCTGGAGCAGGCCAGCTGAACCAATGGAGGCCTGGG
GACATCTGGCATGGTCACCCCTGCACATGATCTGAGGCCAGCTCCCTTCCCTGAGCTGCCTCCTGCTTCTCCT
CAAAGTCTCCTACCTTCTCTTCTCTTTAAGCCCTCTCTTCTCGCTTTCCTTCCCTACCTAGCTCCTTGTGG
TGAGCTTCTTGTGCCTTAATCCTGTGACCCAGCCCTTACACCACTTTCACCTTCCCTGTCCGAAGTACACGGAC
ACTAGCTGCCCCAGGAAGTTGTGTGATTTTAAATCACTTCTGTCTTTGCTGGAAAGTGTATTTGTGCATAAATAA
AGTCTGTGATTTGTTTCAGGGTTGCAAAAAAAAAAAAAA

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FIGURE 6200

MLRVVSWNINGIRRPLOGVANQEPSNCAAVAVGRILDELDADIVCLQETKVTRDALTEPLAIVEGYNSYFSFSRN
RSGYSGVATFCKDNATPVAAEEGLSGLFATQNGDVGCYGNMDEFTQEELRALDSEGRALLTQHKIRTWEGKEKTL
TLINVYCPHADPGRPERLVFKMRFYRLLQIRAEALLAAGSHVILGDLNTHRPIDHWDVNLECFEEDPGRKWM
DSLNSNLGCQSASHVGPFFIDSYRCFQPKQEGAFTCWSAVTGARHLNYGSRLDYVLGDRTLVIDTFQASFLLPEVM
GSDHCPVGAVLSVSSVPAKQCPLCTRFLPEFAGTQLKILRFLVPLEQSPVLEQSTLQHNNQTRVQTCQNKQVR
STRPQPSQVGSSRGQKNLKSYPSPSPCPQASPDIELPSLPLMSALMTPKTPEEKAVAKVVKGQAKTSEAKDEKE
LRTSFWKSVLAGPLRTPLCGGHREPCVMRTVKKPGPNLGRFYMCARPRGPPTDPSSRCNFFLWSRPS

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FIGURE 6201

GCCACCGCCAGCAGGGAGGCGGAGGGCTAGCGAGCCAAGCGGTGGGGACGCCGCTGCCTTCCTCTTTGCCTGTCT
CGCCGCCCTCCTAGACACGCTCCTCATCTACGGATCCTACCCTCCCCGCTCTTGCAAGCATTCACTCGGCCGGTC
GCCTGCTGACCCCTCCTTCGCCACAGGCTCGTAGCGGAGGCAGCAGCGAGCAGGCATGAAGACCCCCAACGCACAG
GAAGCCGAAGGGCAACAAACCAGGGCAGCTGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAAGTC
TCCCAAAGAAGCAGAGAGGCCGACCTTCATCCAGCCCCGCAGGAACATCGTGGGCTGCAGAATTTCTCATGGA
TGGAAGGAAGGAGATGAGCCCATCACGCAGTGGAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTT
TATCTGGTGAAATATGATGGAATTGACTGTGTCTATGGACTGGAACTTCACAGAGATGAAAGGGTTTTGTCTCTT
AAAATTCTTTCTGACAGGGTGCCATCATCTCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCA
GTGGAACATATGTTTGAGGGAGAGCATGGTTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATC
ATGAAAGCCTGGTTTTATATTACCTATGAGAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAG
GAAGGTGACCTCCGCATCATGCCAGAATCCAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGAT
GGCCTAATAGGTAAGCATGTGGAATATACCAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTACCAAGTG
GAAGCCAAACCCTCTGTGTATTTTCATCAAGTTTGATGATGATTCCATATCTATGTCTACGATTGGTGAAAAAG
TCCTAACTGTTAGGGTAAAATTTGGCACATGTGTGGAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGC
CTTTCAGTGATTGAAAGCTTATGGAATCCCTGATAACTAAACATCTTTGCCAGCATTAACTGTTGTTTTGCTCT
AAAAAATACAAACTTGTTGTGTACATG

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FIGURE 6202

MKTPNAQEAEGQQTAAAAGRATGSANMTKKKVSQKKQGRPSSQPRRNIVGCRISHGWKEGDEPITQWKGTVLDQ
VPINPSLYLVKYDGIDCVYGLELHRDERVLSLKILSDRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGM
VLAQAPIMKAWFYITYEKDPVLYMYQLDDYKEGDLRIMPESSESPPTEREPGGVVDGLIGKHVEYTKEDGSKRI
GMVIHQVEAKPSVYFIKFDDDFHIYVYDLVKKS

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FIGURE 6203

GGCAGTGGGGGTTACAGACAGCACCAGAGGCACTCAGGGCAGGAGGGTAGTGGGTGCTGGTCAAGGCCGCTTTGC
AGGGGATTGGGAGTGGATGCTAGTGGCAGTAAAGGGTAAAGGGAGGGCAGTGGGCTCTGAGCTAGGAGGAGGTGG
CCCAGCCACTTCTGCAGAGTTCCTAACCCAGACAGCTCTACTGCACCACCCAGCCCTTCCCCACAGCCCAAAG
GAACTTAAGAGGGAGAGCACTGCGGGCATGCAGCCAGGATTTCAGCATTGCTTCCAGGCTCCTAGGGGAACTT
AGGCACTAGCGCAGACTACATCCAGACATGGCTATAGGGAAAAGTTTGCCTTGTGGCACACTGGGTGTGTCTCTC
TATCCTCTCTCCTCCCCAGCAGGCATGAAGACCCCCAACGCACAGGAAGCCGAAGGGCAACAAACCAGGGCAGC
TGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAGTCTCCCAAAGAAGCAGAGAGGCCGACCTTC
ATCCCAGCCCCGAGGAACATCGTGGGCTGCAGAATTTCTCATGGATGGAAGGAAGGAGATGAGCCCATCACGCA
GTGGAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTTTATCTGGTGAAATATGATGGAATTGACTG
TGTCTATGGAAGTGAACCTTACAGAGATGAAAGGGTTTTGTCTCTTAAATTTCTTTCTGACAGGGTGGCATCATC
TCACATTAGTGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCAGTGAACACATGTTTGAGGGAGAGCATGG
TTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATCATGAAAGCCTGGTTTTATATTACCTATGA
GAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAGGAAGGTGACCTCCGCATCATGCCAGAATC
CAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGATGGCCTAATAGGTAAGCATGTGGAATATAC
CAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTACCAAGTGGAAACCAAACCTCTGTGTATTTTCATCAA
GTTTGATGATGATTTCCATATCTATGTCTACGATTTGGTGAAAAAGTCCTAAGTGTAGGGTAAAATTTGGCACA
TGTGTGGAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGCCTTTCAGTGTACTGAAAGCTTATGGAATC
CCTGATACTAAACATCTTTGCCAGCATTAACTGTTGTTTTGTCTTAAAAAATACAAATTTGTGAATACATGACA
TGCTGTCTGTAAGCCCTTTGTCTTGTGTAAGAGTTTCGGGTGTGTTGGTAGATGGGGCATGGAAGGAACGAACAG
CTGTCAATTTTCGGCTGTGAATAAAGTTCAGCTAGAATCATAATCAGTCATTTAAAAATGGCACTGGATTTAGCTG
GTCTGGTCTGGAGGGGGCAGGGGAAGGAACAAGAGATTGGCTGTCTTGGGGAGAGAGGAGGAGGTGACTGCTTAG
GAAGAGGTGGAAGGGGCCAGAAAGGGAGGGGCTCCTTGGGGGAGGGGATGACCTATGAGAAGGAACATCCAAC
TCAGAAGGAAGACTAACAGAGGGAGAGTGAGATCTTGGGGCTTAGAGGAAAATAGAATAAACTGAGTAGAGAGGA
ACACAAAGAAGCTTAGAAGAGGGTCCAGAGTAAGGTGGAGAAGGATCAACCTGACAGGGATCTGGGAGAGGCTAA
AGGATACACAAAGGAAGAGGCTATGTGGGTTAGGGTGTGGAGGGATTAGAAGAGGGCCACTGAGGAAGGAGGAA
TTCAAAGAAGAAAGACTGACAGAGGGAGTGAGAATACAGGAAAAGAGTTGTGGGGTATGGGGCCCATGAGAGATC
GGAAGGCCCAGGAAAATGTTGGACTTCTGGTAGTGTCCACATTGCTCTTCTGGCTCTATGCACAAAGGAAGTGG
CAACTGTCAAAGATGCCAGATGCATTGGAGGTTCACTAGAAGAGCATGTTGACAGGAATGACTCAGTCAAGTTAA
TCAGGAGCCAAGTTTATGCCCATAAAGGCTTTTCTGTTTCAGGGAGTTAATGACACACTTGTCCAGCAGAAACCC
AATGCTCAGCCTAAACACGCTAACATGGTGCCCCACATGTGCTGGGCTGTGGGCTGCCTCCTCACATTTGTCCTG
CGCTAGATAAGCAATCTTGGTAGAGGATGGGTTAGTGGGGCTCTCAGAACTTAAGAGATGTGCCATCTTGCAATTT
GGAAAGTACTTTATCCAGAAAAAATGAAATCTTACTGAACTCAGGTACAGCAGTCTCATCACTCCTATTCTCTCT
GCTGGAATGTTTGTCTTCTATCTAGAGATGAGGGGCATCAGAGGACTGAGCCTAGTGTCTCTCGAG

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FIGURE 6204

GGTAGCAGGAGGCTGGAAGAAAGGACAGAAGTAGCTCTGGCTGTGATGGGGATCTTACTGGGCCCTGCTACTCCTG
GGGCACCTAACAGTGGACACTTATGGCCGTCCCATCCTGGAAGTGCCAGAGAGTGTAACAGGACCTTGGAAAGGG
GATGTGAATCTTCCCTGCACCTATGACCCCTGCAAGGCTACACCCAAGTCTTGGTGAAGTGGCTGGTACAACGT
GGCTCAGACCCTGTACCATCTTTCTACGTGACTCTTCTGGAGACCATATCCAGCAGGCAAAGTACCAGGGCCGC
CTGCATGTGAGCCACAAGGTTCCAGGAGATGTATCCCTCCAATTGAGCACCTGGAGATGGATGACCGGAGCCAC
TACACGTGTGAAGTCACCTGGCAGACTCCTGATGGCAACCAAGTCGTGAGAGATAAGATTACTGAGCTCCGTGTC
CAGAAACTCTCTGTCTCCAAGCCACAGTGACAACTGGCAGCGGTTATGGCTTCACGGTGCCCCAGGGAATGAGG
ATTAGCCTTCAATGCCAGGCTCGGGGTTCTCTCCCATCAGTTATATTTGGTATAAGCAACAGACTAATAACCAG
GAACCCATCAAAGTAGCAACCCTAAGTACCTTACTCTTCAAGCCTGCGGTGATAGCCGACTCAGGCTCCTATTTT
TGCACTGCCAAGGGCCAGGTTGGCTCTGAGCAGCACAGCGACATTGTGAAGTTTGTGGTCAAAGACTCCTCAAAG
CTACTCAAGACCAAGACTGAGGCACCTACAACCATGACATAACCCCTTGAAAGCAACATCTACAGTGAAGCAGTCC
TGGGACTGGACCACTGACATGGATGGCTACCTTGGAGAGACCAGTGCTGGGCCAGGAAAGAGCCTGCCTGTCTTT
GCCATCATCCTCATCATCTCCTTGTGCTGTATGGTGGTTTTTACCATGGCCTATATCATGCTCTGTGCGGAAGACA
TCCCAACAAGAGCATGTCTACGAAGCAGCCAGGGCACATGCCAGAGAGGCCAACGACTCTGGAGAAACCATGAGG
GTGGCCATCTTCGCAAGTGGCTGCTCCAGTGATGAGCCAACTTCCCAGAATCTGGGCAACAACACTCTGATGAG
CCCTGCATAGGACAGGAGTACCAGATCATCGCCAGATCAATGGCAACTACGCCCGCCTGCTGGACACAGTTTCT
CTGGATTATGAGTTTCTGGCCACTGAGGGCAAAAGTGCTGTGTAAAAATGCCCCATTAGGCCAGGATCTGCTGAC
ATAATTGCCTAGTCAGTCCTTGCCCTTCTGCAATGGCCTTCTTCCCTGCTACCTCTCTTCTCCTGGATAGCCCAAAGTG
TCCGCCTACCAACACTGGAGCCGCTGGGAGTCACTGGCTTTGCCCTGGAATTTGCCAGATGCATCTCAAGTAAGC
CAGCTGCTGGATTTGGCTCTGGGCCCTTCTAGTATCTCTGCCGGGGGCTTCTGGTACTCCTCTCTAAATACCAGA
GGGAAGATGCCCATAGCACTAGGACTTGGTCATCATGCCTACAGACACTATTCAACTTGGCATCTTGCCACCAG
AAGACCCGAGGGAGGCTCAGCTCTGCCAGCTCAGAGGACCAGCTATATCCAGGATCATTCTCTTTCTTCAGGGC
CAGACAGCTTTTAATTGAAATTGTTATTTACAGGCCAGGGTTCAGTTCTGCTCCTCCACTATAAGTCTAATGTT
CTGACTCTCTCCTGGTGCTCAATAAATATCTAATCATAACAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6205

MGILLGLLLLGHLLTVDTYGRPILEVPESVTGFWKGDVNLPCYDPLQGYTQVLVKWLVRGSDPVTIFLRDSSGD
HIQQAKYQGRHLVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVVDKITELRVQKLSVSKPTVTTGSG
YGFTVPQGMRLSLQCQARGSPPISYIWKQQTNNQEPKQVATLSTLLFKPAVIADSGSYFCTAKGQVGSEQHSDI
VKFVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTDDMDGYLGETSAGPGKSLPVFAIILIISLCCMVVFT
MAYIMLCRKTSQQEHVYEAAAHAREANDSGETMRVAIFASGCSSDEPTSQNLGNNYSDEPCIGQEYQIIAQING
NYARLLDTVPLDYEFLLATEGKSVC

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FIGURE 6206

CAGTAGTGCTAGCAGCTTCGCGGTTTCGGTCTCGGACCCGGCAGCCACCCTGGTGCTGAGCTGCTAGGAAGCCC
CTATCGGCGAGCTCTTTGGAGCTTGAACCCATTGTCACTCCTCCGACTCACC GGAAAAACAAAAATGGGTGAA
GCAGATCGCCTAGGAAAGTTTTTCATTGGTGGGCTTAATACGGAAACAAATAAGAAAGCTCTTGAAGCAGTATTT
GGCAAATATGGACAAATAGTGGAAGTACACTTGATGAAAGACTGTGAAACCAACAAATCAAGAGGATTTGCTTTT
ATCACCTTTGAAAGACCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCC
ATCAAGGTGGAACAAGCCACCAAACCGTCATTTGAAAGTGGTAGACGTGGACCGCTCCACCTCCAAGAAAGTAGA
GGCCCTCCAAGAGTTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGAACCTCCCTCACGGGGAGGACAC
ATGGATGACTGGTGGATATTCCATGAATTTTAAACATGAGTTCTTCCAGGGGACCACTCCCAGTAAAAAGAGGACC
ACCACCAAGAAAGTGGGGGTCTTCCTCCTAAGAGATCTGCACCTTCAGGACCAGTTTCGCAGTAGCAGTGGAATGGG
AGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTACCGAGGTCCACCTCGAAGGGAATCGCTGCCCTCTTGTAG
AGAGCTCCACCTACACGAGGGGCCCCCATCTTATGGTGGAAAGCAGTCGCTATGATGATTACAGCAGCTCACGTG
ACGGATATGGTGGAAAGTCGAGACAGTTACTCAAGCAGTCGAAGTGATCTCTACTCAAGTGGTCGTGATCAGGTTG
GCAGACAAGAAAGAGGGCTTCCCCCTTCTATGGAAAGGGGGTACCCTCCTCCACGTGATTCTACAGCAGTTCAA
GCCGTGGAACACCAAGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGA
AACAAACAAAACCTTTGTACCAAAATCCCAGTTCAAAGAAACAAAAAGTGGAAACTATTCTATCATAACTACCCAA
GAACTACTAAAAGGAAAAATTGTGTTACCTTTTTTAAATTTCCCTGTTAAGCTCCCTCCATAATTTTTATGTTT
TTGTGAGGAAAAAAGTAAACATGTTTAATTTTATTTGACTTTTGCATTGCTTTTCAACAAGCAAATGTTAAAT
GTGTTAAGACTTATACTAGTGTGTAACCTTCCAAGTAAAAGTATCCCTAAAGGCCACTTCTATCTGATTTTTT
CCAGTAAATGAGGCAGGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAATGGAGAGATGAATCATT
TACCTACACAAACAAGCTAGCTATTAGAGGGTGGTGGGATATGCTACTCATAAGATTTCAGGGTGTCTTCCAAC
TGAAATCTCAATGTTCTTAGTATGAAAAACCTGAAATCGCATGCCTATTACCCAGTAAACCCAAAAAGCAAAT
GGATAATGCTGGCCATTCTGCCTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCTTTCCCTCCCCCAA
TAAGACCATTTAAGTGTGTGCTAAACAATAAGAATACTAAATAAAATGTTTGGCCAAAAC

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FIGURE 6207A

GGCCAGCCGAATCCAAGCCGTGTGTACTGCGTGCTCAGCACTGCCCGACAGTCCTAGCTAAACTTCGCCAACTCC
GCTGCCTTTTGCCGCCACCATGCCCCAAAACGATCAGTGTGCGTGTGACCACCATGGATGCAGAGCTGGAGTTTGCC
ATCCAGCCCCAACACCACCGGGAAGCAGCTATTTGACCAGGTGGTGAAAACCTATTGGCTTGAGGGAAGTTTGGTTC
TTTGGTCTGCAGTACCAGGACACTAAAGGTTTCTCCACCTGGCTGAAACTCAATAAGAAGGTGACTGCCCAGGAT
GTGCGGAAGGAAAGCCCCCTGCTCTTTAAGTTCCGTGCCAAGTTCTACCCTGAGGATGTGTCCGAGGAATTGATT
CAGGACATCACTCAGCGCCTGTTCTTTCTGCAAGTGAAAGAGGGCATTCTCAATGATGATATTTACTGCCCCCT
GAGACCGCTGTGCTGCTGGCCTCGTATGCTGTCCAGTCTAAGTATGGCGACTTCAATAAGGAAGTGCATAAGTCT
GGCTACCTGGCCGGAGACAAGTTGCTCCCGCAGAGAGTCTTGAACAGCACAAACTCAACAAGGACCAGTGGGAG
GAGCGGATCCAGGTGTGGCATGAGGAACACCGTGGCATGCTCAGGGAGGATGCTGTCTTGAATATCTGAAGATT
GCTCAAGATCTGGAGATGTATGGTGTGAACTACTTCAGCATCAAGAACAAAGAAAGGCTCAGAGCTGTGGCTGGGG
GTGGATGCCCTGGGTCTCAACATCTATGAGCAGAATGACAGACTAATCCCAAGATAGGCTTCCCCTGGAGTGAA
ATCAGGAACATCTCTTTCAATGATAAGAAATTTGTCAAGCCCATTGACAAAAAGCCCCGGACTTCGTCTTC
TATGCTCCCCGGCTGCGGATTAACAAGCGGATCTTGGCCTTGTGCATGGGGAACCATGAACTATACATGCGCCGT
CGCAAGCCTGATACCATTGAGGTGCAGCAGATGAAGGCACAGGCCGGGAGGAGAAGCACCAGAAGCAGATGGAG
CGTGTATGCTGGAAAATGAGAAGAAGCGTGAAATGGCAGAGAAGGAGAAAGAGAAGATTGAACGGGAGAAG
GAGGAGCTGATGGAGAGGCTGAAGCAGATCGAGGAACAGACTAAGAAGGCTCAGCAAGAACTGGAAGAACAGACC
CGTAGGGCTCTGGAATTGAGCAGGAACGGAAGCGTGCCAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCGTCAA
GAAGCTGAAGAGGCCAAGGAGGCCTTGCTGCAGGCCTCCCGGGACCAGAAAAAGACTCAGGAACAGCTGGCCTTG
GAAATGGCAGAGCTGACAGCTCGAATCTCCAGCTGGAGATGGCCCCACAGAAGAAGGAGAGTGAGGCTGTGGAG
TGGCAGCAGAAGGCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCATGAGTACA
CCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGTGACCTA
CGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAACGTACCACTGAGGCAGAGAAGATGAGCGTGTGCAG
AAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAATGCCAGAGATGAGTCCAAGAAGACTGCCAATGACATGATC
CATGCTGAGAACATGCGACTGGGCCGAGACAAATACAAGACCCTGCGCCAGATCCGGCAGGGCAACACCAAGCAG
CGCATTGACGAATTTGAGTCTATGTAATGGGCACCCAGCCTCTAGGGACCCCTCTCCCTTTTCTCTGTCCCCA
CACTCCTACACCTAACTACCTAACTCATACTGTGTGGAGCCACTAAGTAGAGCAGCCCTGGAGTCATGCCAAG
CATTTAATGTAGCCATGGGACCAAACTAGCCCCCTAGCCCCACCCACTTCCCTGGGCAATGAATGGCTCACT
ATGGTGCCAATGGAACCTCCTTTCTCTTCTGTTCATTGAATCTGTATGGCTAGAATATCCTACTTCTCCAGC
CTAGAGGTACTTTCCACTTGATTTTGCAAATGCCCTTACACTTACTGTTGTCTATGGGAGTCAATTTCTCCAGC
GGTTGGAAGCTAGCTCCCTCCTCTCCCTACCACTGTCTTCTCAGGTCCTGAGATTTACACGGTTGGAGTGT
TATGCGGTCTAGGGAATGAGACAGGACCTAGGATATCTTCTCCAGGATGTCAACTGACCTAAAATTTGCCCTCCC
ATCCCGTTTAGAGTTATTTAGGCTTTGTAACGATTGGGGGATAAAAAGATGTTTCAGTCATTTTGTCTTCTACCTC
CCAGATCGGATCTGTTGCAAACTCAGCCTCAATAAGCCTGTGCTTGACTTTAGGGACTCAATTTCTCCCCAGGG
TGGATGGGGGAAATGGTGCCCTTCAAGACCTTCACCAACATACTAGAAGGGCATTGGCCATTCTATTGTGGCAAG
GCTGAGTAGAAGATCCTACCCCAATTCTTGTAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTA
CCCCTTACTTATTATCCAGATCTGCAGTCACTTCGTGGGATCTGCCCCCTCCCTGCTTCAATACCCAAATCCTCT
CCAGCTATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATAT
GTTACACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCCTCTCCCTCTCAGAGCTACTTGGGCCATA
GCTCCTGCTCCACAGCCATCCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCA
AAAAGCTGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCTCTCAGGTGACCAAAATCCCC
TTCTCATCACTCCCCCTCAAAGAGGTGACTGGGCCCTGCCCTCTGTTTGACAAACCTCTAACCAGGTCTTGACAC
CAGCTGTTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCAC
CCCTTGCTCTCAACCCAGGAGCATCCACCTCCTCTGTCTCATGTGTGCTCTTCTTTCTTACAGTATTATG
TACTCTACTGATATCTAAATATTGATTTCTGCCTTCTTGTCTAATGCACCATTAGAAGATATTAGTCTTGGGGCA
GGATGATTTTGGCCTCATTACTTTACCACCCCCACACCTGGAAGCATATACTATATTACAAAATGACATTTTGC
CAAAATTATTAATAAGAAGCTTTTCACTATTAGTGTGCTGCTGCTACTATAGGTCATACAATCCATTCTTAA
AGTACTTGTATTGTTTTTATTATTACTGTTTGTCTTCTCCCCAGGGTTTCAAGGGGCCATCCTGTCC
CACCATGCAGTGCCCCTAGCTTAGAGCCTCCCTCAATTTCCCCCTGGCCACCACCCCCCACTGTGTGCTGACCTT

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FIGURE 6207B

GAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCCTATATTGGCTAAATTGAAACCTGGA
ATTGTGGGGCAATCTATTAATAGCTGCCTTAAAGTCAGTAACTTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGA
TTTTGTATTCAAGGGGTTTTTGTGTACTTTTTGGGTTTTTAAAAATTGTTTTGGAGGGGTTTATGCTCAATCC
ATGTTCTATTTCAAGTGCCAATAAAATTTAGGAAGACTTC

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FIGURE 6208

MPKTISVRVTTMDAELEFAIQPNTTGKQLFDQVVKITIGLREVWFFGLQYQDTKGFSTWLKLNKKVTAQDVRKESP
LLFKFRAKFYPEDVSEELIQDITQRLFFLQVKEGILNDDIYCPPETAVLLASYAVQSKYGDFNKEVHKSGYLAGD
KLLPQRVLEQHKLNKDQWEERIQVWHEEHRGMLREDAVLEYLTKIAQDLEMYGVNYFSIKNKKGSELWLGVDALGL
NIYEQNDRLTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRILALCMGNHELYMRRRKPDIT
EVQQMKAQAREEKHQKQMERAMLENEKKKREMAEKEKEKIEREKEELMERLKQIEEQTKKAQQELEEQTRRALEL
EQERKRAQSEAEKLAKEQEAEEAKEALLQASRDQKKTQEQLALEMAELTARISQLEMARQKKESEAVEWQQKAQ
MVQEDLEKTRAELKTAMSTPHVAEPAENEQDEQDENGAEASADLRADAMAKDRSEEERTTEAEKNERVQKHLKAL
TSELANARDESKKTANDMIHAENMRLGRDKYKTLRQIRQGNTKQRIDEFESM

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FIGURE 6209

TAGAAGATCCTACCCCAATTCCTTG TAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTACCCCTT
ACTTATTATTCCAGATCTGCAGTCACTTCGTGGGATCTGCCCCCTCCCTGCTTCAATACCCAAATCCTCTCCAGCT
ATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATATGTTTAC
ACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCTCTCAGAGCTACTTGGGCCATAGCTCCT
GCTCCACAGCCATCCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCAAAAAGC
TGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCCTCTCAGGTGACCAAAATCCCCTTCTCA
TCACTCCCCTCCAAAGAGGTGACTGGGCCCTGCCTCTGTTTGACAAACCTCTAACCAGGTCTTGACACCAGCTG
TTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCACCCCTTG
CTCTCAACCCAGGAGCATCCACCTCCTTCTCTGTCTCATGTGTGCTCTTCTTCTTCAGTATTAGTGATGTCAT

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FIGURE 6210

GTGCGGAGCGGCGCGGCACAGAGCCTGTTGTTGAGCTCAGTATGTCGTGGGAATCCGGGGCCGGGCCAGGTCTAG
GTTCCCAGGGGATGGATCTCGTGTGGAGTGCCTGGTACGGAAAGTGCGTTAAAGGGAAAGGGTCGTTGCCACTCT
CGGCCCCACGGCATCGTGGTCGCCTGGCTCAGCAGGGCCGAGTGGGACCAGGTGACGGTTTATCTGTTCTGTGACG
ACCATAAGTTGCAGCGGTACGCGCTTAACCGCATCACGGTGTGGAGGAGCAGGTGAGGCAACGAACCTCCCTCTGG
CAGTGGCTTCTACTGCTGACCTGATACGCTGTAAGCTCTTGGATGTAACCTGGTGGCTTGGGCACTGATGAACCTA
GACTGCTCTATGGCATGGCATTGGTCAGGTTTGTGAATCTTATCTCAGAGAGGAAGACAAAGTTTGCCAAGGTCC
CCCTCAAGTGTCTGGCTCAAGAGGTAAATATTCCGGATTGGATTGTTGACCTTCGCCATGAGTTGACCCACAAGA
AAATGCCCCATATAAATGACTGCCGCAGAGGCTGCTACTTTGTCTGGATTGGCTCCAGAAGACCTATTGGTGCC
GCCAAGTGGAGAACAGCCTGAGAGAGACCTGGGAGTTGGAGGAGTTGAGGGAAGGGATAGAGGAAGAGGATCAAG
AGGAAGATAAGAACATTGTTGTTGATGACATCACAGAACAGAAACCAGAGCCTCAGGATGATGGGAAAAGTACGG
AGTCAGATGTAAAGCCGATGGAGACAGCAAAGGCAGCGAAGAGGTGGATTCTCATTGCAAAAAGGCCCTGAGTC
ATAAAGAGCTATATGAAAGAGCCCGAGAAGTCTGGTATCATACGAAGAGGAGCAGTTTACGGTGTGGAGAAAT
TTAGGTATTTACCTAAGGCCATTAAGGCGTGGAATAACCCGTCCCCACGTGTAGAATGTGTCCTGGCAGAGCTCA
AGGGCGTTACATGCGAGAACAGGGAGGCTGTGCTGGATGCTTTTCTGGATGATGGCTTCCTTGTCCCCACATTG
AACAGTTGGCAGCTTTGCAGATAGAATATGAAGATGGTCAGACTGAGGTCCAGAGAGGGGAAGGTACTGACCCAA
AGTCACACAAAAACGTGGACTTGAATGACGTCTGGTGCCAAAGCCGTTCTCTCAGTTCTGGCAGCCCCCTGCTCA
GGGGCTGCACTCCCAAGACTTCACGCAGGCCCTATTGGAGAGGATGCTCTCTGAACTGCCAGCCTTGGGGATCA
GCGGGATCCGGCTACCTACATCCTCAGATGGACCGTTGAACTGATCGTGGCCAAACACCAAGACTGGACGGAATG
CTCGCCGATTTTCTGCAGGCCAGTGGGAAGCAAGAAGGGGCTGGAGGCTGTTCAACTGCTCCGCCTCCCTTGACT
GGCCCCGATGGTTGAGTCTGCTTGGGCTCACCTTGCTGGGCCAGCCCCCAACTCCTTCGGATCATCTTCAAAG
CCATGGGGCAGGGCCTGCCAGACGAGGAGCAGGAGAAGCTGCTGCGCATCTGTTCCATTTATACCCAGAGTGGAG
AAAACAGCCTGGTGCAGGAGGGCTCTGAGGCCTCCCCCATTTGGGAAGTCTCCATATACACTAGACAGCCTGTATT
GGAGCGTCAAGCCAGCCAGCTCCAGCTTCGGGTCTGAAGCAAAGGCCCAGCAACAGGAGGAGCAGGGCAGTGTTA
ATGATGTCAAGGAAGAGGAGAAGGAGGAGAAAGAGGTCTTGCCAGACCAGGTAGAGGAGGAGGAAGAAAATGATG
ACCAAGAGGAGGAAGAGGAGGATGAAGATGATGAAGATGATGAAGAGGAAGACAGAATGGAGGTGGGGCCTTTCT
CTACAGGGCAAGAGTCCCCCACTGCCGAGAATGCTAGGCTTCTGGCCCAGAAAAGAGGAGCTTGCAGGGCTCTG
CATGGCAGGTTAGCTCAGAAGACGTGCGATGGGACACATTTCCCCTAGGCCGAATGCCAGGTGACACCGAGGACC
CAGCAGAGCTCATGCTGGAGAATTATGACACCATGTATCTTTTGGACCAGCCTGTGCTAGAGCAGCGGCTGGAAC
CCTCAACATGCAAGACTGACACCTTGGGCCTGAGCTGTGGTGTGGCAGTGGCAACTGCAGCAACAGCAGCAGCA
GCAACTTCGAGGGCCTTCTCTGGAGCCAGGGGCAGCTGCATGGGCTCAAACTGGCCTGCAGCTCTTCTGATGGC
CATCCCTGGTGCAGTGTTCATCCAGCCGTGCCAGGGCAACAGCCACCCCTAGTACAACTGATGCTCCCTGAG
ACAACCTGGGAGACAGCCTGGATCAGCCACATCAACTCAGTTGTCCACCACAGGGGAATTTGAATGTCTTTGT
TTTTGTTTTGTTTTGAAAAATAATAAACAGGCAACTGT

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FIGURE 6211

MSWESGAGPGLGSQGM DLVWSAWYGKCVKGKGS LPLSAHGIVVAWLSRAEWDQVTVYLFCD DHKLQRYALNRITV
WRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLYGMALVRFVNLISERKTKFAKVPLKCLAQEVNIPDW
IVDLRHELTHKKMPHINDCRRGCFVLDWLQKTYWCRQLENSLRETWELEEFREGIEEEDQEEDKNIVVDDITEQ
KEEPQDDGKSTESDVKADGDSKGSEEVDSHCKKALSHKELYERARELLVS YEEEEQFTVLEKFRYLPKAIKAWNNP
SPRVECVLAE LKGVT CENREAVLDAFLDDGFLVPTFEQLAALQIEYEDGQTEVQRGEGTDPKSHKNVDLNDVLP
KPF SQFWQPLL RGLHSQNF TQALLERMLSEL PALGISGIRPTYILRWTVELIVANTKTGRNARRFSAGQWEARRG
WRLFNC SASLDWPRMVESCLGSPCWAS PQLLRIIFKAMGQGLPDEEQEKLLRICSIYTQSGENSLVQEGSEASPI
GKSPYTLDSLYWSVKPASSSFGSEAKAQQQEEQGSVNDVKEEKEEKEVLPDQVEEEEENDDQEEEEDEDEDDED
EEEDRMEVGPFSTGQESPTAENARLLAQKRGALQGS AWQVSS EDVRWDTFPLGRMPGQTEDPAELMLENYDTMYL
LDQPVLEQRLEPSTCKTDTLGLSCGVGSGNCSN SSSSNFEGLLWSQQQLHGLKTGLQLF

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FIGURE 6212

ATGAACAGCCCGACCTCCGTCGTCCCGCGGCGACCAAAATCTCCGCTGGCCGCACCGCTGTGACTACTCCGGAC
TCGCCGGCAGAGTTTGCCCGCCGGGGAGGGTGGCCGATTGGCGGAGCGCACTCCTGCTGTTTCTCCCACCATCTC
GTGGATGTCGTCCCTCGGGTGGTGAGAGAACTTTGCAGTGGGCTGGAGCGCCCTTTGCGGAGAAGCACACGAAGT
TGGAATTGACCGGAGAATTGAGTTGCCGGGGAACAGAGCCCCGGCCGCCAGCGCGATGTTCCCGCAGAGCC
GGCACCCGACGCCGCACCAGGCTGCAGGCCAGCCCTTCAAGTTCAGTATCGCGGAGTCCCTGGACCGGATTAAAG
AGGAATTCAGTTCCTGCAGGCGCAGTATCACAGCCTTAAATTGGAATGAACATCAACAACAGGTGGCCCAGGCT
GTGGAACGTGCCAAACAGGTGACCATGGCAGAGTTGAATGCCATCATCGGGCAGCAGCAGTTGCAAGCTCAGCAT
CTTTCTTATGGCCACGGACCCCAAGTTCCCTTACGCCTCACCCCTTCGGGACTTCAGCCTCCTGGAATCCCGCCC
CTCGGGGGCAGTCCCGGTCTTCTTGCACTGTCTAGTGCTCTGAGTGGGCAATCTCACTTGGCAATAAAAGATGAC
AAGAAGCATCAAGATGCAGAGCACCCACAGAGATGAGAGGCCCGGCAAGCCAGATTAG

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FIGURE 6213

MNSPDLRRPAATKISAGRTAVTTPDSPAEFARRGGWPIGGAHSCCFSHHLVDVVPRVVRELCSGLERPLRRSTRS
WKLTGELSCRGTFRPPPARCSRRAGTRRRTLQASPSSSVSRSPWTGLKRNSSSCRRSITALNWNEHQQVAQA
VERAKQVTMAELNAIIGQQQLQAQHL SYGHGPPVPLTPHP SGLQPPGIPPLGGSAGLLALSSALSGQSHLAIKDD
KKHQDAEHHRDERPGKPD

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FIGURE 6214A

CTGATCTCGGGGATTTCGGGTGCGGAGCCCTTGGCCTGGAGGCGATATGGGTGGTCCGTGGCCCGGTTTCAGTCGCT
TGCAGCAGCCCGGGGAACAGGCCTGTCTGGCCCTGAGGGAGTCCCCTTTCTGAAGCTGTGGTGCTTGGACGACCT
GCCTCTACATTGCTGGGCACCTGTAGGTGTCCCTCGAGAGCTCAGTTTTGAGGTTCAAGTCAGTGTGGCCATGA
AGGGGCTGCCATTGGGGCTGATGCTGTGACCCCTGGAGTCTGCCTCTCCTGCCAGTCCCCCTGCCCGGAACATGTG
GCTGCGGCTTGGCCCGCCCTCGCTGTCCCTGAGCCCCAAGCCCACGGTTGGCAGGAGCCTGTGCCCTACCCCTGTG
GTTCCCTCAGTTTGGCGCTGAGGGCCAGTACCCAGGCCCCAGCACCCACAGTCAACACTCACTTTGGGAAGCTAAG
GGGTGCCCCAGTACCCTGCCAGTGAGATCCTGGGGCCTGTGGACCAATACCTGGGGGTGCCCTACGCAGCTCC
CCCGATCGGCGAGAAACGTTTCTGCCCCCTGAACACCCCATCCTGGTCGGGCATCCGGAACGCCACACACTT
TCCCCAGTGTGCCCCCAGAACATCCACACAGCTGTGCCCGAAGTCATGCTGCCGGTCTGGTTCACTGCCAACTT
GGATATCGTCGCTACTTACATCCAGGAGCCCCAACGAAGACTGTCTCTACCTGAACGTCTATGTGCCGACGGAGGA
TGGATCCGGCGCTAAGAAACAGGGCGAGGACTTAGCGGATAATGACGGGGATGAAGATGAAGACATCCGGGACAG
TGGTGCTAAACCCGTCATGGTCTACATCCACGGAGGCTCTTACATGGAAGGGACAGGCAACATGATTGATGGCAG
CATCCCCGCCAGTTATGGCAATGTATAGTCAATCACCCTCACTATCGGGTTGGAGTGCTAGGTTTCTGAGTAC
TGGAGATCAGGCTGCCAAGGGCAACTATGGGCTCCTTGACCAGATCCAGGCCCTCCGCTGGGTGAGCGAGAATAT
TGCCTTCTTCGGGGGAGACCCCCGCCGGATCACTGTCTTTGGCTCGGGCATTGGTGATCCTGCGTCAGCCTCCT
CACGTTGTACATCACTCAGAGGGACTTTTCCAGAGAGCCATCATCCAAAGTGGCTCTGCTCTGTCCAGCTGGGC
TGTGAACACCAACCAGTGAAGTACACCAGCCTGCTGGCAGACAAAGTGGGCTGTAATGTGCTGGACACCGTGGA
TATGGTGGACTGTCTTCGGCAAAAGAGTGGCAAGGAGCTGGTAGAGCAGGACATCCAGCCAGCCCGCTACCAGT
GGCCTTTGGCCCTGTGATTGATGGTGATGTATTCTGTATGACCTGAGATCCTCATGGAGCAGGGCGAGTTCTCT
CAACTATGACATCATGCTAGGTGTCAACCAGGGCGAGGGTCTCAAGTTTGTGGAAGGGGTGGTGGACCCTGAGGA
TGGTGCTCTGGCACTGACTTTGACTATTCCGTCTCCAATTTGTGGACAATCTGTATGGCTATCCTGAGGGTAA
GGACACCCCTGCGAGAGACCATCAAGTTTCATGTATACAGACTGGGCAGACCGTGACAACCCCTGAGACCCGCCGTAA
AACACTGGTGGCACTCTTCACTGACCACAGTGGGTGGAGCCCTCAGTGGTGACAGCCGATCTGCATGCCCGCTA
CGGCTCGCCTACCTACTTCTACGCCTTCTATCATCACTGCCAGAGCCTCATGAAGCCTGCTTGGTCAGATGCAGC
TCATGGGGATGAAGTACCCTATGTTTTTGGGGTTCCTATGGTAGGCCCCACTGACCTTTTCCCTGCAACTTCTC
CAAGAATGATGTTATGCTCAGTGCTGTCTGTCATGACCTATTGGACCAACTTTGCCAAGACTGGGGATCCCAACAA
GCCGGTCCCCCAGGACACCAAGTTTCATTACACCAAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAAATACAA
TCCCCGAGACCAGCTCTACCTTACATCGGGCTGAAACCAAGGGTCCGAGATCATTACCGGGCCACTAAGGTGGC
CTTTTGGAAACATCTGGTGCCCCACCTATACAACTGCATGACATGTTCCACTATACGTCCACCACCAACAAAGT
GCCGCTCCGGATACCACCCACAGCTCCACATACCCGCGAGGCCAATGGCAAGACCTGGAGCACCAAGCGGCC
AGCCATCTCACCTGCCTACAGCAACGAGAATGCCAGGGGTCTTGAACGGGGACCAGGATGCAGGCCACTCCT
GGTGGAGAACCCTCGTGACTACTCCACTGAATTAAGTGTACCATCGCCGTGGGGGCTCCCTCCTGTCTCTTAA
CGTTCTGGCCTTCGCTGCCCTCTACTACCGTAAGGACAAACGGCGCCAGGAGCCCTGCGGCAGCCTAGCCCTCA
GCGGGGAGCCGGGGCCCCGGAGTTGGGAGCTGCTCCAGAGGAGGAGCTGGCAGCATTACAACCTGGGCCCCACCCA
CCACGAGTGTGAGGCCGGTCCCCCCCCATGACACGCTGCGCCTCACTGCATTGCCCGACTACACCCTGACCCTGCG
GCGCTCCCCGGATGACATCCCACTCATGACCCCAACACCATCACTATGATCCCCAACTCCCTGGTAGGGCTGCA
GACATTGCACCCCTATAACACCTTTGCCGCGAGGGTTCAACAGTACCGGGCTGCCCCACTCACACTCCACTACCCG
GGTATAGCTCCAACCTCAGAGCACAGCCAATCTCCAGGCTCCCTCCCTCCAGATCCAGGAACACATGCACACACA
CACACACACACACGCAGACACACACACACACATATGTATACGCACGCACCCACACCCCTACAGCAGATCC
ACCTGCACAAACATAGACAGATGTGGACATGCACCCGATGTACAAAAACACAAATACGGAAGTAAACCTGAACA
AACCCTTTAAATGGGGACGCAGATGAGTCCTCGGTAACCGAGGACCCATGAAACAGCAGCTGAAGCCAGCTCCC
TGAATCTGACCACAGACACTCCTGGGGGGCTGAAAGCAACAGCTGGACACCCCTTGGTGCTCGCCTTCGGCCT
CTCTTGGAACTGCACCACCGACCACTCCAGACTTGGGAGCTTTAAAGAGCAGGATAGCTCTTCTCCCCAGGAC
TTGGTCTTTTTCTGGGTCTTGTCTTGTGTTTTCTTTTTTAATTTTGAACAAATGCTTTTTCAACCCATGA
GTGCTAAGAGCCTCTGGAAGGGAGGGCTTCAGGCCGGAAGGTCTCTCTGGCTCTAGGACCCCCAGTGCTCACACA
ATCAGACCAAGGAACAAGACCCCAAGGAAGGAACAGATTTAAGCAAGACCATGGGGTGAAGGAGAAAGGGGCT
AGCACTGGATGGAGCTGGAGGGTCGTAGGGGAGAGATCTCCAACCTCTCTCTGTGTCCGTGTGGAGGGCTGCAGAG
CCTGCAGGGTGACCTGCTTCCCCAAAGGCCAACAGCATTGGCCTGGCCAGACCAGGTGACCTTAGATTGGTGAA

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FIGURE 6214B

CAACGTACTATGGAAGCCACATCACTATTGGGCCCCCAGGTCTGATCTGGGTTTTGCCTCTGCCCTTGGGGAAAT
GCTATCAGAAATTCGCCCCATTTTCTTTACAGTCTTTTGTGTCTGTCATTTCTCTTTCAAAAAGGCGGTGTTTTT
TGTTGTTGTTGGTTTTTTTTTTTTTTTTTAAAGAAAAGTTCTTAAACACTAACGAAAAAAAAA

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FIGURE 6215

MWLR LGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPT VNT HFGKLRGARVLPSEILGPVDQYLGV PYA
APP IGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNEDCLYLN VYVPT
EDGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVYIHGGSYMEGTGNMIDGSIPASYGNVIVITLNYRVGVLGFL
STGDQAAKGNYGLLDQIQALRWVSENI AFFGGDP R RITVFGSGIGASCVSLLT LSHHSEGLFQRAIIQSGSALSS
WAVNYQPVKYTSLLADKVGCNVLDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEILMEQGE
FLNYD IMLGVNQGEGLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRET IKFMYTDWADRDNPETR
RKT LVALFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVYVFGVPMVGPTDLFPCN
FSKNDVMLS AVVMTYWTNFAKTGDPNKPVPQDTKFIHTKANRFEEVAWSKYNPRDQLYLHIGLKPRVRDHYRATK
VAFWKHLVPHLYNLHDMFHYTSTTTKVPPDTHSSHITRRPNGKTWSTKRPAISPAYS NEN AQGSWNGDQDAGP
LLVENPRDYSTE LSVTIAVGASLLFLNVLAFAALYRDKRRQEP L RQPS PQRGAGAPELGAAP EEE LAALQLGP
THHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNTITMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHST
TRV

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FIGURE 6216

CTCTGGGAAAGGGCAGCAGCAGCCAGGTGTGGCAGTGACAGGGAGGTGTGAATGAGGCAGGATGAACTGGACAGG
TTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCATTGGCCGAGTATGGCTCTCGGTCACTTTCAT
CTTCAGAAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGGTGATGAGAAATCTTCCTTCATCTGCAACAC
ACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCCCATCTCCCATGTGCGGCTGTGGTCCCTGCA
GCTCATCTAGTTTCCACCCAGCTCTCCTCGTGGCCATGCACGTGGCTCACCAGCAACACATAGAGAAGAAAAT
GCTACGGCTTGAGGGCCATGGGGACCCCTACACCTGGAGGAGGTGAAGAGGCACAAGGTCCACATCTCAGGGAC
ACTGTGGTGGACCTATGTCATCAGCGTGGTGTTCGGCTGTGTTTGAGGGCCGTCTTCATGTATGTCTTTTATCT
GCTCTACCCTGGCTATGCCATGGTGCAGGTGGTCAAGTGCGACGTCTACCCCTGCCCCAACACAGTGGACTGCTT
CGTGTCCCGCCCCACCGAGAAAACCGTCTTACCGTCTTTCATGCTAGCTGCCTCTGGCATCTGCATCATCTCAA
TGTGGCCGAGGTGGTGTACCTCATCATCCGGGCTGTGCCCCGAGCCAGCGCCGCTCCAATCCACCTTCCCG
CAAGGGCTCGGGCTTCGGCCACCGCCTCTCACCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGTGAGCA
GGATGGCTCCCTGAAAGACATACTGCGCCGAGCCCTGGCACCAGGGGCTGGGCTGGCTGAAAAGAGCGACCGCTG
CTCGGCCTGCTGATGCCACATAACCAGGCAACCTCCCATCCCCGACCCCTGCCCTGGGCGAGCCCCCTCCTTC
TCCCCTGCCGGTGACAGGCCTCTGCCTGTGGGGATTACTCGATCAAAACCTTCCCTTCCCTGGCTACTTCCCTT
CCTCCCGGGGCTTCCCTTTTGAGGAGCTGGAGGGGTGGGGAGCTAGAGGCCACCTATGCCAGTGCTCAAGGTTAC
TGGGAGTGTGGGCTGCCCTTGTTCCTGCACCCCTTCCCTCTCCCTCTCTCTGGGACCACTGGGTACAA
GAGATGGGATGCTCCGACAGCGTCTCCAATTATGAACTAATCTTAACCCTGTGCTGTGATACCCCTGTTTCTG
GAGTCACATCAGTGAGGAGGGATGTGGGTAAAGAGGAGCAGAGGGCAGGGGTGCTGTGGACATGTGGGTGGAGAAG
GGAGGGTGGCCAGCACTAGTAAAGGAGGAATAGTGCTTGCTGGCCACAAGGAAAAGGAGGAGGTGTCTGGGGTGA
GGGAGTTAGGGAGAGAGAAGCAGGCAGATAAGTTGGAGCAGGGGTGGTCAAGGCCACCTCTGCCTCTAGTCCCC
AAGGCCTCTCTCTGCCTGAAATGTTACACATTAAACAGGATTTTACAGT

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FIGURE 6217

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAESVWGDEKSSFICNTLQPGCNSVCYDQFFPISHVR
LWSLQLILVSTPALLVAMHVAHQHIEKKMLRLEGHGDPLHLEEVKRHKVHISGTLWWTYVISVVFRLLFEAVFM
YVFYLLYPGYAMVRLVKCDVYPCPNTVDCFVSRPTEKTVFTVFMLAASGICIIILNVAEVVYLIIRACARRAQRRS
NPFSRKSGSGFGRHLSPEYKQNEINKLLSEQDGS�KDILRRSPGTGAGLAEKSDRCSAC

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FIGURE 6218

GTGTGAATGAGGCAGGATGAACTGGACAGGTTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCAT
TGGCCGAGTATGGCTCTCGGTCATCTTCATCTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGG
TGATGAGAAATCTTCCTTCATCTGCAACACACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCC
CATCTCCCAIGTGCGGCTGTGGTCCCTGCAGCTCATCCTAGTTTCCACCCAGCTCTCCTCGTGGCCATGCACGT
GGCTCACCAGCAACACATAGAGAAGAAAATGCCAAGGCCTCTCTGCTGGAAATGTTACACATTAAACAGGATT
TTACAGTAAATGAAGAGGTGGCTTGTGTGTTTGTCAAGTTCTTTCTCCTGCAACCTCTGACCTCCCCAGGATGA
GCTGGCCTTGGTTTTTTTACTGATTAAGAAAGGAACAGGGCAAAGAAGTAGTTACTTGAGTAGCTGAAGCTGCAA
ATGAGGAAATCACTGTACTTCTGGGCCGAGAGCCAGCCCCGAGCCATTCTCCTGTTGCTTTTGTGTTGTG
GTTCTTGCTTTTTTCATTGTCTAATAACAGCTTTATTGGGATTTAGTTTACATACCTCCTCCTCTGATTTTGAA
AAGATTAAAAATGACAACCTCCCTCTG

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FIGURE 6219

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAESVWGDEKSSFICNTLQPGCNSVCYDQFFPISHVR
LWSLQLILVSTPALLVAMHVAHQQHIEKKMPRLSA

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FIGURE 6220

TAATTCTAAATGGTGGTAGGAGGAGAACAGGCATTGCTTTACAGCCCCTGGGGGCCTACCTCAGTTTGCTATAG
ATAGCAGTCTTTTTTTTTTTGGAGACAGAGTTTCCCTCTTGTTGCCAGGCTAGAGTGCAATGGCATGGTCTTGG
CTCACTGCAACCTCCACCTCCCGGGTTCAAGCGAGTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTG
CTTGCCACCATGCCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTACACCATGTTGGCCAGGCTGGTCTCG
AACTCCTGACCTCAGGTGATCCACCAGCCTCGGCCTCCCAATTTTGTATTTTTATTAGAGACTGAGTTTGACCAC
GTTGGTCAGGCTGTTCTTGAACTCCTGACCTCAGATAATCTGCCCGCCTCGGTTTCCCAAAGTGCTGGGATTACT
GGCGTGAGCCACCAAGCCCGGCCAGATAGCAATCTTTAGGACTGCTGGTATCCATTAAATGTAACCTCAAGGTC
TTTATTTTTGAATCTTGAGCAAACCTCAGTCTCTATACTTAATCTAGGAGTTAAGTAAATGCCACCGTCTGACTGG
CCAGTCTGATTGACTATGTTTGTGGAGGGAAGTCAATGAAGGCTAGGCATTATCACATAAAATAGTTGTGAATC
CAAATACTTCATGGCTCATGCAATCCTGGGGTTGTTTTGGTTATGGTGTAAATGCCAAACTGGATAGTTTGG
TTGTTTCTGTTTTTGTCTTTTTCTTTTTCTTTTTGAGACAGAGTTTGCCTTGTGCGCCAGGCTGGAG
TGCAGTGGTGAATCTTGGCTCCCTGCAACCTCCGCCTCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGA
GTAGCTGGGATTACAGGCATGCGCCACCACCTTTGGGGTTATCCACTAGAGTTCTAAACAGACTTAGTCACCCAC
TCCTACCTACCATCAGGAGCCTTGAATAGTTGAATGGAAATAGCCTCCAGTGGAGGGACTACAGATGGGTGGGAA
GCTTCCAACATGGCTCTGTTACAGTGTGCTCTCTTTTTCTTTAAGACCCACCAACAACCTGAACGCTTTGG
TCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGGAACCTCCTGCATTCAACCGTGCAGCTCCTGGAGC
TGAATTTGCCCAAACAAACGTCGCCGATACTAATAAGTTGCAGTGTCTAGTTTCTCAAAACCTTAAAAGAAGG
ACCTTTTTGGACTAGCCAGAATTCTACCTGGAAAAGTGTTAGGGATTCTTCCAATAGTTAGATCTACCTTGC
CTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGGCAAGGGAGGGGTGGTATTAAACAAGTCAATTCTGTGTGG
TATATTGTTTAATCAGTTCTGTGTGGTGCATTCTGAAGTCTCTAATGTGACTGTTGAGGGCCTGGGGAAACCAT
GGCAAAGTGGATCCAGTTAGAGCCCATTAATCTTGATCATTCCGGTTTTTTTTTTTTTTGTCCATCTGTTTCAT
TTGCTTGCCCCGCCCCGAGACGGAGTCTTACTCTGTGCGCCAGGCTGGAGTGTAGTGGCATGATCTCGGCTCAC
TGCAATCTCTGCCTCCCGGGTTCAAGCTTGTCCAGGTTGATCTTGAACCTCTGACCTCGTGATCTACCCACCTCG
GCCTCCCAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTCTTATCCTTACACTCCCC
CAGCCCCAGAGAACTGCCACATACACCACAAAACCAAAACATCCCCAATGACCTAGCCCCATTGCTCCATT
ACTCCAGGTGAGAATTACAGCAAACGTCCACAAAGGTCACAGGCAGCGTACATACGGTTCTGTTATACCCATA
TATTACCCCTTCATGTCCTAAAGAAGACATTTTCTTTAGAGATTTTCATTTTAGTGTATCTTTAAAAAAAATC
TTGTGTTAACTTGCTCCATCTTTTTCTTGGGTGAGGACACCCAGGAATGACCCTTTGTGTCTATGATGTTGCT
GTTACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGTTACTGTATACTGAAGGTCTGACAGTAGC
TCTTAGACTCGCCTATCTTAGGTAGTCACTGTGTCATTTTTTTTTTCATTGGTGTACTGTGTTGATTGTCTC
ATATATTTGGAGTTTTTCTGAAAAATGGAGCAGTAATGCAGCATCAACCTATTAAAATACATTTTAAGCCTTTT

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FIGURE 6221

MQSNKTFNLEKQNHTPRKHHQHQQHHQQQQQQPPPPP
IPANGQQASSQNEGLTIDLKNFRKPGKFTFTQSR
LFVGNLPPDITEEEMRKLFEKYGKAGEVFIHKDKGFGFIRLETRLAEIAKVELDNMPLRGKQLRVRFACHSASL
TVRNLPQYVSNELLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAARKALDRCSEGSFLLTTFFRPVTV
PMDQLDDEEGLPEKLVIKNQFHKEREQPPRFAQPGSFYEYAMRWKALIEKQQQDQVDRNIKEAREKLEMEM
EAARHEHQVMLMRQDLMRQEEELRRMEELHNQEVQKRKQLELRQEEERRRREEEMRRQEEEMMRQEEGFKGTFF
DAVYLPCARDVPDQS

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FIGURE 6222

GCCAGATCTGGAAGGTGGCTGCGGAACGGTTTTTAAGCGGAAGATGGAGGAGCCGGAGGAACCGGCGGACAGTGGG
CAGTCGCTGGTCCCGGTTTATATCTATAGTCCCGAGTATGTCAGTATGTGTGACTCCCTGGCCAAGATCCCCAAA
CGGGCCAGTATGGTGCAATTCTTTGATTGAAGCATATGCACTGCATAAGCAGATGAGGATAGTTAAGCCTAAAGTG
GCCTCCATGGAGGAGATGGCCACCTTCCACACTGATGCTTATCTGCAGCATCTCCAGAAGGTCAGCCAAGAGGGC
GATGATGATCATCCGGACTCCATAGAATATGGGCTAGGTTATGACTGCCCAGCCACTGAAGGGATATTTGACTAT
GCAGCAGCTATAGGAGGGGCTACGATCACAGCTGCCCAATGCCTGATTGACGGAATGTGCAAAGTAGCAATTAAC
TGGTCTGGAGGGTGGCATCATGCAAAGAAAGATGAAGCATCTGGTTTTTGTATCTCAATGATGCTGTCTGGGA
ATATTACGATTGCGACGGAAATTTGAGCGTATTCTCTACGTGGATTTGGATCTGCACCATGGAGATGGTGTAGAA
GACGCATTCAGTTTCACCTCCAAAGTCATGACCGTGTCCCTGCACAAATTCTCCCCAGGATTTTCCCAGGAACA
GGTGACGTGCTGTGATGTTGGCCTAGGGAAGGGACGGTACTACAGTGTAAATGTGCCCATTTCAGGATGGCATACAA
GATGAAAAATATTACCAGATCTGTGAAAGTGTACTAAAGGAAAGTATACCAAGCCTTTAATCCCAAAGCAGTGGTC
TTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAACATGACTCCAGTGGGAATTGGCAAG
TGTCTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATTTTGGGAGGAGGAGGCTATAACCTTGCCAACACG
GCTCGATGCTGGACATACTTGACCGGGGTCATCCTAGGGAAAAACACTATCCTCTGAGATCCCAGATCATGAGTTT
TTCACAGCATATGGTCCTGATTATGTGCTGGAAATCACGCCAAGCTGCCGGCCAGACCGCAATGAGCCCCACCGA
ATCCAACAAATCCTCAACTACATCAAAGGGAATCTGAAGCATGTGGTCTAGTTGACAGAAAGAGATCAGGTTTCC
AGAGCTGAGGAGTGGTGCCATAATGAAGACAGCGTGTATTATGCAAGCAGTTTGTGGAATTTGTGACTGCAGGGA
AAATTTGAAAGAAATTAATTCCTGAAAATTTCCAAGGGGCATCAAGTGGCAGCTGGCTTCCTGGGGTGAAGAGGC
AGGCACCCAGAGTCTCAACTGGACCTAGGGGAAGAAGGAGATATCCACATTTAAAGTTCTTATTTAAAAAAA
CACACACACACAAATGAAATTTTAAATCTTTGAAATTTATTTTAAAGCGAATTGGGGAGGGGAGTATTTTAAATCA
TCTTAAATGAAACAGATCAGAAGCTGGATGAGAGCAGTCACCAGTTTGTAGGGCAGGAGGCAGCTGAGAGGCAGG
GTTTGGGCCTCAGGACCATCCAGGTGGAGCCCTGGGAGAGAGGGTACTGATCAGCAGACTGGGAGGTGGGGAGAA
GTCCGCTGGTGTGTTTTAGTGTTATATATCTTTGGTTTTTTTAAATAAATCTTTGAAAACCTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6223

MEEPEEPADSGQSLVPVYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHKQMRIVKPKVASMEEMATFHTDAY
LQHLQKVSQEGDDDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATITAAQCLIDGMCKVAINWSGGWHHAKKDEAS
GFCYLNDVAVLGILRLRRKFERILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRIY
SVNVPIQDGIQDEKYYQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTVPVGIGKCLKYILQWQLATLI
LGGGGYNLANTARCWTYLTGVILGKTLSSSEIPDHEFFTAYGPDYVLEITPSCRPDNRNEPHRIQQILNYIKGNLKH
VV

6740/6881
FIGURE 6224

AAGACGGAGGTCTCTTTCTTGCCTAACGCAGCCATGGCTCGTGGTCCCAAGAAGCATCTGAAGCGGGTGGCAG
CTCCAAAGCATTGGATGCTGGATAAAATTGACCGGTGTGTTTGCTCCTCGTCCATCCACCGGTCCCCACAAGTTGA
GAGAGTGTCTCCCCCTCATCATTTTCTGAGGAACAGACTTAAGTATGCCCTGACAGGAGATGAAGTAAAGAAGA
TTTGCATGCAGCGGTTCAATAAAATCGATGGCAAGGTCCGAAGTATATACCTACCCTGCTGGATTTCATGGATG
TCATCAGCATTGACAAGACGGGAGAGAATTTCCGTCTGATCTATGACACCAAGGGTCGCTTTGCTGTACATCGTA
TTACACCTGAGGAGGCCAAGTACAAGTTGTGCAAAGTGAGAAAGATCTTTGTGGGCACAAAAGGAATCCCTCATC
TGGTGACTCATGATGCCCCGACCATCCGCTACCCCGATCCCTCATCAAGGTGAATGATACCATTGAGATTGATT
TGGAGACTGGCAAGATTACTGATTTTCATCAAGTTCGACACTGGTAACCTGTGTATGGTGACTGGAGGTGCTAACC
TAGGAAGAATTGGTGTGATCACCACAGAGAGAGGCACCCTGGATCTTTTGACGTGGTTCACGTGAAAGATGCCA
ATGGCAACAGCTTTGCCACTCGACTTTCCACATTTTTGTTATTGGCAAGGGCAACAAACCATGGATTTCTCTTC
CCCGAGGAAAGGGTATCCGCCTCACCATTGCTGAAGAGAGAGACAAAAGACTGGCGGCCAAACAGAGCAGTGGGT
GAAATGGGTCCCTGGGTGACATGTCAGATCTTTGTACGTAATTAAAAATATTGTGGCAGGATTAATAGCAAAAAA
AAAAAAAAAAAAAAAAA

6741/6881
FIGURE 6225

MARGPKKHLKRVAAPKHWMLDKLTGVFAPRPSTGPHKLRECLPLIIFLRNRLKYALTGDEVKKICMQRFIKIDGK
VRTDITYPAGFMDVISIDKTGENFRLIYDTKGRFAVHRITPEEAKYKLCKVRKIFVGTGKIPHLVTHDARTIRYP
DPLIKVNDTIQIDLETGKITDFIKFDTGNLCMVTGGANLGRIGVITNRERHPGSFDVVHVKDANGNSFATRLSNI
FVIGKGNKPWISLPRGKGIRLTIAEERDKRLAAKQSSG

6742/6881
FIGURE 6226

ATGGGTCCACGTCTTGCAGCTACAGCTGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGTATAAATATGCT
GCGGGAGTTTGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAGTGCAACAGCCTGCTATTCATGTA
CAAGGTCAGGAACCTTTGACTGTTTCCATGTTGGCATCTGCCCCTCAAGAGCAAAAGCAAATGTTGGGTGAATGG
CTGTTTCCTCTTATTCAAGCCATGCACCCTACTCTTGCCGGTAAAAATCACTGGCGTGTTGTTGGAGATTGATAAT
TCAGAACTTCTTCATATGCTCAAGTCTCCAGAGTCACTCCATTCTAAGGTTGATGAAGCTGTAGCTGTACTACAA
GCCACCAAGCTAAAGAGACTGCCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAAGTGTTTAA

6743/6881
FIGURE 6227

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACGTATATGCAAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATACTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCATGAATGAAAATGATCAGAGAA
AGAAATAAGCCAAAGAGAAAGGTACCTGTGTTCAACTAAAGTGCCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCTCTATGAATTTATGGCATAATAGGTGTTAAAAA
ATAAATAAAAGACATCTGGGCTGT

6744/6881
FIGURE 6228

ATGAGATCTGGTTGTTCCCTGGGTATCACCAATGATGTTACCCAGTCCATGGAGATTAGTTCCACCTTCTGGGTG
TTGGGAGTAGTTCAGCACTTCCAGAGCCTTCTCTCTCTGTGCAAAATAGCAACTCTTAAGGAAAACTCATT
GTACCAGTTGCGGAAGAAGAGGCAACAGTCCAAAACAATAAGATCACTGTAGTGAGTGTTGGACAAGTTGGTATG
GCGTGTGCTATCAGCATTCTGGGAAAATCTCTGGCTGATGAATTTGCTTTTGTGGATGTTTTGGAAGATAAGCTT
AAAGGAGAAATGATGGATCTGCAGCATGGGAGCTTATTTCTCAAGAAGCTTAAAATTGTGGCAGATAAAGATTAT
TCTGTGACTGCCAGTTATAAGATTGTAGTGGTAACTTCAGGAGTCCTTCAGCAAGAGGGGGAGAGGCGGGACATT
CTTACGTATGTTACCTGGAAAATAAGTGGATTACTCAAACACCATGTGATTGGAAGTGGATGTAATCCGGATTCT
GCTAGATTTCACTGCCTTATGGATGAAAAATTTGGCATTTCATCCAGCAGCTGCCATGGAAGGATTTTGGGGGAA
CATAGTGACTCAAGTGTGGCTGTGTGGATTGGCATGAATGTGACAGGTTTTTCTCTCCAGGAATTGAATCCAGAA
ATAGGAACTGACAATGATAGTAAAAATTGGAAAGAAGTGCATAAGATGGTGGTTGAAAATGCCTATGAAGTCAAC
AAGCTAAATGGATATACCCACTGGGATATTGGATTAAGTGTGGCTGATCTCATTGAATCCAIGTTGAAAAATCTA
TCCAGGATTCATCTCGTGTCAACAATGGTAAAGGGGATGTATGGCATCGAGAATGAAGTCTTCCTGAGCCTTCCA
TATATCCTCAATGCCCCGGGGATTAAACCAGCGTTATCAACCAGAAGCTAAAGGATGATGAGGTTGCTCAGTTCAAG
AAAAGTACAGATACCCCGTGGGACATCCAGAAGGACCTAAAAGACCTGTGA

6745/6891
FIGURE 6229

ACTTATAGAAGGGAGAGGAGCGAACATGGCAGCGCGTTGGCGGTTTTGGTGTGTCTCTGTGACCAIGGTGGTGGC
GCTGCTCATCGTTTGCGACGTTCCCTCAGCCTCTGCCCAAAGAAAGAAGGAGATGGTGTATCTGAAAAGGTTAG
TCAGCTGATGGAATGGACTAACAAAAGACCTGTAATAAGAATGAATGGAGACAAGTCCGTCGCCTTGTGAAAGC
CCCACCGAGAAATTACTCCGTTATCGTCATGTTCACTGCTCTCCAACATGCATAGACAGTGTGTGCTTTGCAAGCA
AGCTGATGAAGAATTCAGATCCTGGCAAACCTCCTGGCGATACTCCAGTGCATTACCAACAGGATATTTTTGTC
CATGGTGGATTTTGATGAAGGCTCTGATGTATTTGAGATGCTAAACATGAATTCAGCTCCAACCTTTTCATCAACTT
TCCTGCAAAGGGAAACCCAAACGGGGTGATACATATGAGTTACAGGTGCGGGGTTTTTCAGCTGAGCAGATTGC
CCGGTGGATCGCCGACAGAACTGATGTCAATATTAGAGTGATTAGACCCCCAAATTATGCTGGTCCCTTATGTT
GGGATTGCTTTTGGCTGTTATTGGTGGACTTGTGTATCTTCGAAGAAGTAATATGGAATTTCTCTTTAATAAAAC
TGGATGGGCTTTTGCAGCTTTGTGTTTTGTGCTTGCTATGACATCTGGTCAAATGTGGAACCATATAAGAGGACC
ACCATATGCCCATAGAATCCCCACACGGGACATGTGAATTATATCCATGGAAGCAGTCAAGCCCAGTTTGTAGC
TGAACACACATTGTTCTTCTGTTTAAATGGTGGAGTTACCTTAGGAATGGTGTCTTTATGTGAAGCTGCTACCTC
TGACATGGATATTGGAAGCGAAAGATAATGTGTGTGGCTGGTATTGGACTTGTGTTATTATTCTTCAGTTGGAT
GCTCTCTATTTTATGATCTAAATATCATGGCTACCCATACAGCTTTCTGATGAGTTAAAAAGGTCCCAGAGATAT
ATAGACACTGGAGTACTGGAATTGAAAAACGAAATCGTGTGTGTTTGAAGAAGAATGCAACTTGTATATTT
TGTATTACCTCTTTTTTTCAAGTGATTAAATAGTTAATCATTTAACCAGAAAGATGTGTAGTGCCTTAACAAG
CAATCCTCTGTCAAAATCTGAGGTATTTGAAAATAATTATCCTCTTAACCTTCTCTTCCCAGTGAACCTTATGGA
ACATTTAATTTAGTACAATTAAGTATATTATAAAAAATTGTAAACTACTACTTTGTTTTAGTTAGAACAAGCTC
AAAACACTTTTAGTTAACTTGGTCATCTGATTTTATATTGCCTTATCCAAAGATGGGGAAAGTAAGTCTTGACCA
GGTGTTCACATATGCCTGTTACAGATAACTACATTAGGAATTCATTCTTAGCTTCTTCATCTTTGTGTGGATG
TGTATACTTTACGCATCTTTCCCTTTGAGTAGAGAAATTATGTGTGTCATGTGGTCTTCTGAAAATGGAACACCA
TTCTTCAGAGCACACGTCTAGCCCTCAGCAAGACAGTTGTTTCTCCTCCTTGCATATTTCTACTGCGCTCC
AGCCTGAGTGATAGAGTGAGACTCTGTCTCAAAAAAAGTATCTCTAAATACAGGATTATAATTTCTGCTTGAGT
ATGGTGTTAACTACCTTGTATTTAGAAAGATTTGAGATTCATTCCATCTCCTTAGTTTTCTTTAAGGTGACCCA
TCTGTGATAAAAAATATAGCTTAGTGCTAAATCAGTGTAACTTATACATGGCCTAAATGTTTCTACAAATTAGA
GTTTGTCACTTATTCCATTTGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACTCCCTGGCCAGGCGCAGT
GACTTACGCTGTAACTCTCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACGAGGTCAGGAGTTCGAGACCATCC
TGGCCAACATGGTGAAACCCGCTCTCTACTAAAAATATAAAAAATTAGCTGGGTGTGGTGGCAGGAGCCTGTAATC
CCAGCTACACAGGAGGCTGAGGCACGAGAATCACTTGAATCAGGAGATGGAGGTTTCAGTGAGCCAAGATCACA
CCACTGCACTCCAGCCTGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAA

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FIGURE 6230

AAGCCTCCGGAGCGCACGTCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTTC
CAAAATGTCGCTTTCTAACAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGA
CTTCAATGTTCCCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATT
CTGCTTGGACAATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCATGCCTGA
CAAGTACTCCTTAGAGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTTCTTGAAGGACTG
TGTAGGCCCAGAAGTGAGAAAGCCTGTGCCAACCAGCTGCTGGGTCTGTCATCCTGCTGGAGAACCCTCCGCTT
TCATGTGGAGGAAGAAGGGAAGGGAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGC
TTTCCGAGCTTCACTTTCCAAGCTAGGGGATGTCTATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCCACAG
CTCCATGGTAGGAGTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGTATGAAGAAGGAGCTGAACCTACTTTGCAAA
GGCCTTGGAGAGCCCAGAGCGACCTTCCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCAT
CAATAATATGCTGGACAAAGTCAATGAGATGATTATTGGTGGTGGGAATGGCTTTTACCTTCCTTAAGGTGCTCAA
CAACATGGAGATTGGCACTTCTCTGTTTGTATGAAGAGGGAGCCAAAGATTGTCAAAGACCTAATGTCCAAAGCTGA
GAAGAATGGTGTGAAGATTACCTTGCCCTGTTGACTTTGTCACTGCTGACAAGTTTGATGAGAATGCCAAGACTGG
CCAAGCCACTGTGGCTTCTGGCATACTGCTGGCTGGATGGGCTTGGACTGTGGTCTGAAAGCAGCAAGAAGTA
TGCTGAGGCTGTCACTCGGCTAAGCAGATTGIGTGGAAATGGTCTGTGGGGGTATTTGAATGGGAAGCTTTTGC
CCGGGGAACCAAAGCTCTCATGGATGAGGTGGTGAAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGTGG
AGACACTGCCACTTGCTGTGCCAAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGGCCAG
TTTGGAGCTCCTGGAAGGTAAAGTCCTTCCTGGGGTGGATGCTCTCAGCAATATTTAGTACTTTCCTGCCTTTTA
GTTCTGTGCACAGCCCCTAAGTCAACTTAGCATTTTTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGT
CAAGATTAGCTAGTGGCCAAGAGATGCAGTGCCAGGAACCCCTAAACAGTTGCACAGCATCTCAGCTCATCTTC
ACTGCACCTTGGATTTGCATACATTCTTCAAGATCCCATTGTAATTTTTTAGTACTAAACCATTTGTGCATTCTA
GAGTGATATATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTAGCTTAGTTCTCTTTTGATGTAGGTT
ATTATGATTAGCTTTGTCACTGTTTCACTACTCAGCATGGAACAAGATGAAATTCATTTGTAGGTAGTGAGAC
AAAATTGATGATCCATTAAGTAAACAATAAAAGTGTCCATTG

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FIGURE 6231

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLGRPDGVPMMPDK
YSLEPVAVELKSLLGKDVLFKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGKGKDASGNKVKAEPKIEAF
RASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALES PERPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPVGVFEWEAFARGTKALMDEVVKATSRGCITIIGGGD
TATCCAKWNTEDKVSHVSTGGGASLELLEGKVLPGVDALSNI

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FIGURE 6232

CTCCCTGCCTCCGCGCTGCAGCCCCTGCCGTAGCCGCCCTGAGCCGCCACCACCGCCTCTGAGCAGAAGATGG
CTGTGCCACCTACGTATGCTGATCTTGGCAAATCTGCCAGGGATGTCTTCACTGAGGGCTATGGATTGGCTTAA
TAAAGCTTGATTGAAAACAAAATATGAGAATGGATTGGAATTTACAAGCTCAAGCTCAGCCAACACAGACCACC
AAAGTGACGGGAGTCTGGAAACCAAGTACAGATGGACTGAGTACGGCCTCACGTTTACAGAGAAATGGAACACC
GACAATACACTAGGCACCAAGATTACTGTGGAAGATCAGCTTGACGTGGACTGAAGCTGACCTTCGATTATCC
TTTTACCTAACACTGGGAAAAAAATGCTAAAATCAAGACAGGGTACAAGCGGGAGCACATTAACTGGGCTGC
GACATGGTTTTTCGACATTGTTGGGCCTTCCATCCGGGGTGCTCTGGTGCTGGGTACGAGGGCTGGCTGGCCGGC
TATCAGATGAATTTTGAGACTACAAAATCCCGAGTGACCCAGAGCAACTTTGCAATTGGCTACAAGACTGATGAA
TTCCAGCTTCACACAAATGTGAATGACGGGACAGAGTTTGGCGGCTCCATTTACCAGAAAGTGAACAAGAAGTTG
GAGACCACCGTCAATCTTGCTGGACAGCAGGAAACAGTAACACGCGCTTCGGAATAGCAGCCAAGTATCAGATT
GACCCTGACGCGCTGCTTCTCGGCTAAAGTGAACAACCTCCAGCCTGATAGGTTTAGGATACACTCAGACTCTAAAG
CCAGGTATCAAACTGACACTGTCAGCTCTTCTGGATGGCAAGAACGTCAATGCTGGTGGCCACAAGCTTGGTCTA
GGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTAATTTTAACTATTTTGAGCATAGCTACCTTC
AGAAATTTAGTGTTATCTTTAATGTTGTATGTCTGGGATGCAAGTATTGCTAAATATGTTACCCCTCCAGGTTAA
AGATGATTCAGCTTTAAGATGTTACCCTTCAGAGGTACAGAAGAAACGCATTTCCAAAAAGGTTCTTTTCAGTG
GTAGACTCGGGGAGAACTTGGTGGCCCCCTTTGAGGTGCCAGGTTTCTTTTTCATCTAGAGATGGCTGCGAGTGGA
AGCTGATAATATGTAGGCACTTTGTAAATTCATATTGAGTAAATGAATGAAATTGTGATTTCTGAGAATCGAAC
CATGGTTTCCTAACCTAATTGATGAGAGGCTCGCTGCTTGATGGTGTGTACAAGCTCACCTGAATGGGACTTTT
TTAGACAGATCTTCATGACCTGTTCCCACCCCAGTTCATCATCATCTCTTTACACCAAAGGCTGCGAGGGTGT
GGTCACCTCTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTAGATGTGATGAAACCAATAATTACGACTTATTCC
TTCTTGTGTTGTGTTTTTTTTTGGCCCTTGCAACAGAGTATGAAATAGCTTCCAGGAGCTCCAGCTATAAGCTTGG
GAGTGTCTGTGTGATTGTAATCACATGGTGACAGCACTCAGAATCTAAATTGGACTTCTGCTGTATTCTCACCAC
TCAATTTGTTTTTTAGCAATTTAATGGCTACATTTTAGAGTCTTCCATTTTTGTGGAATTAGATCCTCCCTTC
AAATGCTGTAATTAACATCACTTAAGAAAACCTGAATAAAATGTTGAAACCTC

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FIGURE 6233

TAGCTGGATTCCAGCCATTGCTGCAGCTGCTCCACAGCCCTTTTCAGGACCCAAACAACCGCAGCCGCTGTTCCC
AGGATGGTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGATTAAGAAGAAACAACAAGATGTGCTT
GGTTTCCTAGAAGCCAACAAAATAGGATTTGAAGAAAAAGATATTGCAGCCAATGAAGAGAATCGGAAGTGGATG
AGAGAAAATGTACCTGAAAATAGTCGACCAGCCACAGGTTACCCCTGCCACCTCAGATTTTCAATGAAAGCCAG
TATCGCGGGGACTATGATGCCTTCTTTGAAGCCAGAGAAAATAATGCAGTGTATGCCTTCTTAGGCTTGACAGCC
CCACCTGGTTCAAAGGAAGCAGAAGTGCAAGCAAAGCAGCAAGCATGAACCTTAAGCACTGTGCTTTAAGCATCC
TGAAAAATGAGTCTCCATTGCTTTTATAAAATAGCAGAATTAGCTTTGCTTCAAAAGAAATAGGCTTAATGTTGA
AATAATAGATTAGTTGGGTTTTACATGCAAACATTCAAATGAATACAAAATTTAAATTTGAACATTATGGTGA
TTATGGTGAGGAGAATGGGATATTAACATAAAATTATATTAATAAGTAGATATCGTAGAAATAGTGTGTACCT
GCCAAGCCATCCTGTATACACCAATGATTTTACAAAGAAAACACCCTTCCCTCCTTCTGCCATTACTATGGCAAC
TTAAGTGTATCTGCAGCTCTACATTAAAAAGGAGAAAGAGAAATAACCTGTCTCTCATTCCTAAGTTGCCTCATT
AATTTTCATGAACAAGAATATGTACCTTTTTGATGCTATATTACTGCGATTAAAAAGTTCTTGCAGGTAATGTTT
ATGATATGTTAAACGTTGTAATTTCCCTATCGTAATTATAACATTCCCATTCTTTTGTAGATGAACTTCTACATA
TTGAACCACAGATTTTCTGAGCTTCTAAATGTAGCCTTTTCATTGCACATTTTCAGTGATCAGAATAGATATCCTTT
TACACGCACAAAAGCAATAGATTCATTTCAGTGGACAAGTTCCCTTGTTAACTACACAGCTATGATGGAATGATAT
ATCCAAGTTCCCTTGCCCTCAGTGAATATGCATATGTATATCATGAAAGTGGGATGCCAAGTAAGCTTAAATGGC
ATTCTCTAGCAAAGAGATTAGACTTTTAAATAACTCTTATAAAACAGGTTGGCGATCATTTCCTCAAGATTGGTTT
CCCTTGAGTTTTTGCTAAAACAAATCTTAGTAGTTTTGCCCCGTTTAAAACAACCTCACAATCGTAAATGCTACTAT
TCCTAAGATATCTTACCTTTTTTATTTTCAGTTTAGCCATGTATTGTATGAGTGTATTAGTCTAAGCAGTGAGAATC
TTTTCTATGCCTCTATTCCAGCAAAAAGTAGAAGTATCAAATAAAAAGGGCAACTTTTAAATATTAAGCCTGAA
GACTTCTAAAAGACAAGAAACATGGCCTAAATAACCAACATAGATTTACATAGTAAGTTTCACACTACCTTATT
ACCAAAAGCAAACACCTCTTACTTTAACTACATTATCATGTATATCTATTGTATGCTGGTCTTTACTTTTTGCC
AAAATCAACATATAATGAAGAGATGCCTTTGTTTCATGAGATTCAAACCTTGATGCTAIGCTTTAAATAAACTCA
GTACTTTTAGAAACAT

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FIGURE 6234

MVIRVYIASSSGSTAIIKKQDVLGFLEANKIGFEEKDIAANEENRKWMRENVENS
RGDYDAFFEARENNAVYAFLGLTAPPGSKEAEVQAKQQA

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FIGURE 6235

TTTCCGCACTACCTACAGAGGGGTCCATAGGGGGTTGTTCTAGATTCCCCTCGTAACTTAAAGGGAACTTTTCAC
AATGTCCGGAGCCCTTGATGTCCTGCAAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGAGCAGGAACCCACTT
AGGTGGCACC AATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGACAGCTCGTGCTATTGTTGCCATTGAAAACCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGGTTAG
TGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTAAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAACCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAATGACCAGGGA
GGAACCTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTACAGCAGTTCCCTACTGAAGACTGGAGCACTCAGCGTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 6236

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLL TARAIVAIENPADVS
VISSRNTIGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVS DPRADHQPLTEASYVNLPTIALCNT
DSPLHYVDIAIPCNNKGTHSVGLMWWMLAREVLRMRGTISRHPWEVMPDLYFYRDPEEIEKEEQAAAEKAMTRE
ELQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSTQRATEDWSAAPT AQATEWVGATTDWS

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FIGURE 6237

GATCATGTCTGTAAGCCAGGATTTCCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCCGAAGGCGTCATCGA
GAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCGTGACATCTATGC
CTATGGTTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTATAATGTAATCGC
TCAAGCCTGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGCATTAGATCTAAA
AGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGTCATGGCACTAGT
AGACTACATGGGTGCCTCCTGTCATGCCTGTATCAGGGGCACCAATGTGCGTGCTGAGGTGCAGAACTGCAGAT
GGAAGCTCCCCACATCAICGTGGGTACCCCTAGCTGTGTGTTTGATATGCTTAACCGGAGATACCTATCTCCCAA
ATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGATCTATGACAT
ATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGTCAGCTACAATGCCTTCTGATGTGCTTGAGGTGAT
CAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCTGGAGGGTATCCGCCAATT
CTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCTGACCATCACCCA
GGCAGTCATCTTCATCAATACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAGATTTCACTGT
CTCCGCCATGCATGGAGATATGGACAAAAGGAGCGAGACGTGATCACGAGGGAGTTTCGTTCTGGCTCTAGCAG
AGTTTTGATTACCACTGACCTGCTGGGAAAACATATCCACAGAATCAGTCGAGGTGGACAGTTTGGCCGTAAAG
ATGTGGCTATTAAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCA
TTGAGGAAATGCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCGGGGGCTGAGGAGCAGCAGGAGAGGGGAAGGAAGGGAGCCAAGGGATAGACATCTTGTCAATTTTTTTTCTT
TGAATAAATGTCACTTTTTTGAGGCAAAA

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FIGURE 6238

TCGTCGGCAAAGCCTGAGTCCTGTCCTATCTCTCTCCTCCCCGGACAGCATGAGCTTCACCACTCGGTCCACCTT
CTCCACCAACTACCAGTCACTGGGCTCTGTCCAGGCGCCAGCTACGGCGCCCGGCCGGTCAGCAGCGCGGCCAG
CGTCTATGCAGGCGCCGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCCGGGGTGGCATGGG
GCCTGGGGGCTGGCCGCGGGGATGGCTGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACAAGAAGACCATGCA
AAGCCTGAACGACCGCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGAGACTGAGAACCGTAGGCTGGAGAG
CAAAATCCGGGAGCACTTGGAGAATAAGGGACCCAGGTCAAAGACTGGAGCCATTACTGCAAGACCATCGAGGA
CCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATCGTTCTGCATATTGACAATGCCCCTCTTGC
TGCTGATGACTTTAGAGTCAAGTATGAGACACAGCTGGCGATGCGCCAGTCTGTGGAGAACGACATCCATGGGCT
CCGCAAGGTCATTGATGACACCAATGTCACTTGACTGCAGCTGGAGACAGAGATTGAGGCTCTCAGGGAGGAGCT
GCTCTTCATGAAGAACCACGAAGAGGAAGTAAAAGGCCCTACAAGCCCAGATTGCCAGCTTTAGGTTGACCGTGGA
GGTAGATGCCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCAATATGACGACCTGGCTGG
GAAGAACCGAGAGGAGCTAGACAAATACTGGCCTCAGCAGTTTGAGGAGAACACCACAGTGGTCACCACAGTCCG
CCGAGGTTGGAGCTGCTGAGATGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCCTTGAGATCGACCTGGACT
CCATGAGAAATCTGAAGGCCAGCTTGGAGAACAACCCGAGGGAGGTGGAGGCCCGCTACTCCCTACAGATGGTGC
AGCTCATCGGGATCCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGAGACAGTGCCAGGCCCAGG
AGTAATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCCTGCTGGAAGAT
GGCGAGGACTTCACTCTTGGTGATGCCTTGGACAGCAGGAATCCATGCAAACCATCCAAAAGACCACCACCCGC
CGGAAAGTGATGGCAAAGTGGTGTCTGAGACCAACAACACCAAAGTTCTGAGGCATTAAGCCAGCAGAAGCAGG
GTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTACAGAGTT

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FIGURE 6239

CGGAAGCCGACTCAACAGAGCTATGCGGGGTTTGACTGTGAGAGACCCAGCGGTGGATCGTTCTCTACGTTCTGT
GTTCTGTTGGGAACATTCTTTATGAAGCTACTGAAGAGCAGTTGAAGGACATCTTTCTGAGGTTGGACCTGTTGT
TAGTTTCAGATTGGTATACGATAGAGAGACAGGAAAGCCAAAGGGTTATGGCTTCTGTGAATACCAAGACCAAGA
GACAGCACTTAGTGCCATGCGGAACCTGAATGGGCGCGAATTCAGTGGGAGAGCACTTCGAGTGGACAATGCTGC
CAGTGAAAAGAACAAGAAGAGCTGAAGAGCCTTGGCACTGGTGCCCTGTCAATTGAGTCACCTTATGGAGAGAC
CATCAGTCTTGAGGATGCCCCCTGAGTCCATTAGCAAAGCAGTTGCCAGCCTTCCACCAGAGCAGATGTTTGAGCT
GATGAAACAAATGAAGCTCTGTGTCCAGAATAGTCCCCAGGAGGCACGGAACATGTTACTTCAGAACCCTCAACT
GGCTTATGCTTTTGCTGCAAGCACAGGTAGTGATGAGAATTGTGGATCCGGAATTGCCCTGAAAATTCTGCATCG
CCAGACAAATATCCCAACGCTGATTGCAGGCAACCCCTCAGCCAGTCCATGGTGCTGGGCCTGGCTCAGGATCCAA
TGTGTCAATGAACCAGCAGAATCCTCAGGCCCCCTCAGGCCAGTCTTTGGGTGGAATGCATGTCAATGGCGCACC
TCCTCTGATGCAAGCTTCTATGCAGGGTGGAGTTCCAGCACCAGGGCAAATGCCAGCTGCTGTACAGGACCTGG
CCCTGGTTCCCTTAGCTCCTGGAGGAGGAATGCAGGCTCAGGTTGGAATGCCAGGAAGTGGACCAGTGTCCATGGA
ACGGGGGCAAGTGCCGATGCAAGACCCCAGAGCAGCTATGCAGCGGGGATCCTTGCTGCGAATGTCCCAACCCC
TCGAGGCTTGTTAGGAGATGCTCCGAATGATCCACGGGGAGGCACTTTACTTTCTGTAACCTGGAGAGGTAGAGCC
TAGAGGTTACTTGGGACCACCTCATCAGGGTCCACCCATGCACCATGTCCCTGGCCATGAGAGCCGAGGACCACC
CCCACATGAACTGAGGGGAGGGCCATTACCCGAGCCCAGACCTCTAATGGCAGAACCAAGAGGACCCATGCTAGA
TCAGAGGGGTCCACCCTTGATGGCAGAGGTGGAAGGGATCCCCGAGGAATAGATGCACGAGGGATGGAGGCCCG
AGCCATGGAGGCAAGAGGGTTAGATGCCAGAGGATTAGAGGCCCGTGCAATGGAGGCCCGTGCGATGGAAGCTCG
TGCAATGGAGGCCCGAGCGATGGAGGCCCCGTGCAATGGAAGTCCGAGGGATGGAGGCCAGAGGCATGGATACCAG
AGGCCCAGTGCTTGCCCCCAGAGGACCTATACCTAGTGGAATGCAGGGTCCCAGTCCAATTAACATGGGGCGGT
TGTCCCCCAGGGATCCAGACAGGTCCCAGTCATGCAGGGAACAGGAATGCAAGGAGCAAGTATACAGGGTGGAAAG
CCAGCCTGGCGGCTTTAGTCCCGGCAGAACCAAGTCACTCCACAGGATCATGAGAAGGCTGCTTTGATTATGCA
GGTTCTACAACCTGACTGCAGACCAGATTGCCATGTTGCCTCCTGAGCAAAGGCAGAGTATCCTGATTTTAAAGGA
ACAAATACAGAAATCCACTGGAGCACCTTGATAGGTTTTCAAAAATACCTGGCAAGAAATCTGGAAATTTCTATAA
TTTTGTTGAAATATTGAAAAAGATGACCTGCATCCTAACCCTTGAATGACTCAAATCAGTGCCAGGTGGAGGAC
TCCCATCACCTTCTCTCAGAACAAATCACTTCATTTATTGCTCTAGTTTGTATATTTTCTGTGACTTGAAATA
AACTTTGAACACAATTTTAGTACACTGC

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FIGURE 6240

MAGLTVRDPAVDRSLRSVFGNIPYEATEEQDKDIFSEVGPVVSFRLVYDRETGKPKGYGFCEYQDQETALSAMR
NLNGREFSGRALRVDNAASEKNKEELKSLGTGAPVIESPYGETISPEDAPESISKAVASLPPEQMFELMKQMKLC
VQNSPQEARNMLLQNPQLAYALLQAQVVMRIVDPEIALKILHRQTNIPTLIAGNPQPVHGAGPGSGSNVSMNQON
PQAPQAQSLGGMHVNGAPPLMQASMQGGVPAPGQMPAAVTGPGPGSLAPGGGMQAQVGMPGSGPVSMERGQVPMQ
DPRAAMQRGSLPANVTPRGLLGDAPNDPRGGTLLSVTGEVEPRGYLGPPHQGPPMHVPGHESRGPPPHEL RGG
PLPEPRPLMAEPRGPMLDQRGPPLDGRGGRDPRGIDARGMEARAMEARGLDARGLEARAMEARAMEARAMEARAM
EARAMEVRGMEARGMDTRGPVPGPRGP IPSGMQGPSP INMGAVVPQGSRQVPVMQGTGMQGASIQGGSQPGGFSP
GQNQVTPQDHEKAALIMQVLQLTADQIAMLPPEQRQSILILKEQIQKSTGAP

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FIGURE 6241

AAGGGTTGGCTGCGCGTGC GGCGGGAGTAGAGGCGCCTTGCGCACCAGGAAGTGACTGTTTCCCCGCCGAGCAA
ACCAGGCCATCCGCTGGCCTTTTAGTTTGCCGCTCAGGTTTGTAAGAGGATTATTGGTTACGAAGGAAGGTGG
ATTTCA GTGTGTTCTTTGGATGGCAGGCCTTAAGAGAAGAGTCCCAGTGCACAGCCTCAGATACTTCATCTCCAT
GGTGGGTCTCTTCTCAAACCAGGACTGCTTCCTTGGTATGCCAGAAATCCACCAGGATGGTCACAGCTCTTTCT
GGGCACAGTATGTAAGGGAGATTTCACCCGTGTGATAGCCACGAAATGTCAGAAAGGACAAAAAGTCAGAAGAA
ACCAAGCCATCTTGGACCACTAGATGGTTCTTGGCAGGAAAGGCTGGCTGATGTTGTGACACCACTCTGGAGGTT
GAGCTATGAAGAACAGCTCAAGGTGAAATTTGCACTCAGAAAGAAATTTTACAAAGACTAGAGTCTTACATCCA
AATGCTCAATGGAGTCAGTGTGACAACGGCTGTACCCAAATCTGAGAGGCTCTCTTGTCTTCTCCATCCTATTAT
ACCTCTCTCTGTCATCAATGGTTACCGAAATAAGTCCACCTTCTCTGIGAACCGAGGTCCAGATGGCAATCCAAA
GACTGTGGGGTTCTACCTGGGAACCTTGGAGAGATGGGAACGTTGTCTGTGTGTCAGTCTAATCATCTGAAAAACAT
CCCTGAGAAACACAGTCAAGTGGCGCAGTACTATGAAGTATTCCTTCGACAGTCTCCATTGGAGCCCTGCCTTGT
ATTTCA TGAAGGTGGATACTGGCGTGAGCTCACAGTCCGCACCAATAGCCAAGGGCACACAATGGCTATCATCAC
TTTCCATCCCCAGAAATTAAGTCAGGAGGAGCTCCATGTTTCAAGGAGATTGTAAGGAATTTTTCATCAGAGG
TCCTGGAGCAGCCTGTGGCTTGACCTCACTTTACTTCCAGGAAAGTACCATGACCCGTTGCAGCCATCAGCAGTC
TCCCTATCAGCTTCTGTTTGGGGAACCTACATCTTTGAAGAACTTCTGAGCTTGAAGATCCGCATCTCTCCAGA
TGCCTTTTTCCAGATTAAACACAGCTGGTGCAGAGATGCTGTATCGGACTGTGGGGGAGCTGACTGGAGTGAACCTC
TGACACCATCCTTCTTGACATCTGCTGTGGAACCTGGTGTGATTGGCCTCTCTCTGGCTCAGCATACATCTCGGGT
CCTTGGGATTGAATTGTTGGAGCAGGCAGTGGAGGATGCAAGATGGACTGCAGCCTTCAATGGCATCACCAACTC
TGAATTTTCACTAGGTCAAGCAGAGAAGATTTTGCCAGGGCTGCTAAAGTCAAAGGAAGATGGACAGTCAATTGT
TGCTGTGGTGAACCCAGCCCGTGCCGGACTGCATTACAAGGTGATTCAAGCCATTGCAAACTTCAGGGCCATCCA
CACGCTAGTTTTTGTTCCTGCAAGCTCCATGGTGAATCCACTAGGAATGTCATTGAGCTGTGCTGTCTCCAGA
CCCTGCTAAGAAAGCTCTTAGGCGAGCCCTTTGTCTGCAGCAAGCTGTACCTGIGGATTTGTTCCCTCACACCCC
ACATTGTGAGCTGGTGTCTCTTTACTCGATAAGCAGCCTCCTAGAAGACAGCAGGCTATTTGTTAAGGCTGAA
GTTTCAGAACTTTTCAAGTTTGGCATATTGCTACATTGCAGACCTGGGAGCATTACAGTGGAAACCAATCTTTG
GTTTGTGAATAGGAAGAATCTATTAGGCCTCTGGTCTGAGGCAGATTTTTTTTTTGAGATAGAGTCTCACTCTTG
CCCAGGCTGGAGTGTGCTGGCGTGATCTCAGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCGTGCC
TCAGCTTCCCCAGTAGCTAGGATTAAAGGTGCGTGCCACCATGCCCGCTAATTTTGTATTTTGGTAGAGACA
GGGTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAAGTGATCCACCCGCTCGGCCTCTCAAAGT
GCTGGGATTATAGGCGTGAGCCACCACACCCCGCCGCGGTGACTTAACCTTAGATTTCAGATTCCCTTTCAATC
ATGCCCGTTTGCTTGGGTTTGACCACTCCCACTCCTGGATCTGGACTGTTTCTTCTGTTGCTGTCAGCCTTGG
TTCTAGTTTATAGTCTTGTCTCCTCCGTTTCTGCTTATGGTGTGGACAAATGACCTTTTTTAAGCAGCTGGTAAT
AATTTTACATTGACTGGAGCCTGTGCATTTGCTCAGAGATGCTACAATTTTATAGATATTCTAAGACTTCTGGAT
TCTTGAGGTAGTTAAGGATTAAACCAGAAACAGTCGAGGTTTTTTAAAAGCAGGGTAAGCCATGAAGTGAATAC
AGGGTGACTGAGTGATCATCAGATGAGATTAAATCTTTTGGGTTTTCTTGGTTTTAAGGCATCTCGAATGCCCTT
TGAAAATGTAGTTTTCCCTGGTGGTGGGCACCTGTAATCCAGCTACTCGGGAGGCTGAGGCAGGATAATTGCTT
GAACCTGGGAGGTGGAGGTTGCAGTGAGCTGAAATGTGCCACTGCACTCCAGCCTGGGTGACAGAGTGAGACAC
CATCTC

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FIGURE 6242

GCGGAGTTCGCTCTCTGCAAGCTTGGTCGCCCTGGGATGGATTCCCTCCTCCTCCTCCTCCGCGGCGGGTTTGGGTG
CAGTGGACCCACAGTTGCAGCATTTCATCGAGGTAGAGACTCAAAAGCAGCGCTTCCAGCAGCTGGTGCACCAGA
TGAAGTGAACCTTTGTTGGGAGAAGTGCATGGACAAGCCTGGGCCAAAGTTGGACAGTCGGGCTGAGGCCTGTTTTG
TGAAGTGCCTTGAGCGCTTCATTGATACAAGCCAGTTTCATCTTGAATCGACTGGAACAGACCCAGAAATCCAAGC
CAGTTTTCTCAGAAAGCCTTTCTGACTGATCTCAGCATTACCTCTTTGGAAAAGGAAGGTAGTTCAAGAAATGAA
GAGCTGTTGATGGGATGATTGAAGAAACAGCTATGAGAGGATTGGCTCCCATCTTTTGTTACTCTTGGGACATCC
TGTCATCTGAGAAATGAACAAAGACCAATTTTTTGTGTGTGAAGCTTAAGGGTCATATGTTTGCTTGTTATTTTTTA
ATGCTAATCTTGTGAAAATAATTGACAGGCGAAAGAAACTCTATTAGATGCATATTACTGTACATGGGACTAT
GCTTTTCTCAAAGCCCCATTAAGTCTTCTATAATTTTGATAGTGGGACCACATACGTAAAAATCTCTCATTG
TGTGGAGTCATTTCTGATTTTCAGGGGAGATCCTTGTGTTTATCAGAAAGGGCAGAAGTAGGGGAAGAATAATTG
GTATCCTTATCTAGTGTGTTGATTGTCAATGCTGGAGAAAAATATCTGTAAAGTGTGTTTATACAGTACACTTCAGT
TATCTTGATCTCCCTTTCTATATGATGATTTGCTTAAATATCCATATTAAGTAAGTCTCAAGGTAGGGTAGGCA
GCCTGAGAGTCTAGAGGCCCTTTAGTTATAAAGGAATCTAGCCAGTGAACATAATTCTTATTACTAGACTGCCACA
AGGAAGAAATTAAGTACCTGTATATCAGGGTACAAAAAATTCAGTGATGTGCCTAAATAAGTTATAAAGATT
AGGCCAATCAGAAGCTAACAGCAGTTTCAGGTAGAGGTGCATGCCTAATGTTAGTTAGTGTAGATTCCATTACT
GCATTCTCTGATCACTGAAATAAAAGCTATATAAGATTCATA

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FIGURE 6243

MDSSSSSSAAGLGAVDPQLQHFIEVETQKQRFQQLVHQMTELCWEKCMDKPGPKLDSRAEACFVNCVERFIDTSQ
FILNRLEQTQKSKPVFSESLS

6760/6881
FIGURE 6244

GCGGTTTCITTCITTCCTCCGCGCCGATAGCGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCGCCGGACTTTCTG
TAAGAAGTGTGGCAAGCACCAACCCCATAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTACGCCAGGG
AAAGCGGCGTTATGACAGGAAGCAGAGTGGCTATGGTGGGCAAACTAAGCCGATTTCCGGAAAAAGGCTAAAC
TACAAAGAAGATTGTGCTAAGGCTTGAGTGCGTTGAGCCCACTGCAGATCTAAGAGAATGCTGGCTATTAAAG
ATGCAAGCATTTTGAAGTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCAGTTCTAAGTGTCATCTTTAT
TATGAAGACAATAAAATCTTGAGTTTATGTTCAAAAAAAAAAAAAAAAAA

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FIGURE 6245

MVNVPKTRRTFCCKCGKHQPHKVTQYKKGKDSLYAQGKRRYDRKQSGYGGQTKPIFRKKAATTKKIVLRLECVEP
NCRSKRMLAIKRCKHFELGGDKKRKGQVIOF

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FIGURE 6246

CACGTCGGCTGCTGGGAAGATCTGGATTCTCGTTTCAGGTCACCATCAGAAAAGCTAAGTTTGCTGTATAGTGAG
GATCAGGAGATCTGATCCTGATTGCAGAACCTTCCCTGATTACAGAATCTTGGATGATTTACAAAAAGTTTCATCT
TCATTGCAGATACCTGCCTTTCTTTCTAGGTTGTATCTCCCACTTCACCCCTTAGACCATCCAGAAAGATCTAT
AAGATTTCATCTGGGAAATCACTAGGAGTTCTTGGAAGGGAAAGAAGGAAGATTGTTGGTTGGAATAAAAAACAGG
GTTGAATGAGTTCCAGAAAGCAGGGTTCTCAACCTCGTGGACAGCAATCTGCAGAAGAAGAGAACTTCAAAAAAC
CAACTAGAAGCAACATGCAGAGAAGTAAAATGAGAGGGGCTCCTCAGGAAAGAAGACAGCTGGTCCACAGCAGA
AAAATCTGAACCAGCTCTCCAGGAAGATGGGGTGGTCTGCTGTCAGAGAAACCCCCCTTCAGGATCCGTGAGGA
AGACCAGAAAGAACAAGCAGAAGACTCCTGGAACCGGAGATGGTGGCAGTACCAGCGAAGCACCTCAGCCCCCTC
GGAAGAAAAGGGCCCGGCAGACCCCACTGTTGAAAGTGAGGAGGCGTTTAAGAATAGAATGGAGGTTAAAGTGA
AGATTCTGAAGAATTAACCATGGCTTGTGAGGACTGGGACTTAGTTACCAGGCAGAAGCAGCTGTTTTCAAC
TCCCTGCCAAGAAAAATGTAGATGCAATTCTGGAGGAGTATGCAAATTGCAAGAAATCGCAGGGAAATGTTGATA
ATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAAAGAATATTTCAATGTGATGTTGGGCACTCAGCTGC
TCTACAAATTTGAGAGGCCCCAGTATGCTGAAATCCTCTTGGCTCACCCCTGATGCTCCAATGTCCCAGGTTTATG
GAGCACACACCTACTGAGATTATTTGTAAGAATTGGAGCAATGTTGGCCTATACGCCCCCTTGATGAGAAAAGCC
TTGCATTATTGTTGGGCTATTTGCATGATTTCTTAAATATCTGGCAAAGAATTCTGCATCTCTCTTTACTGCCA
GTGATTACAAAGTGGCTTCTGCTGAGTACCACCGCAAAGCCCTGTGAGCGTCTACAGACAGCTCACCATTTTTGT
CCTGTATCTGTAAACACTTTTGTTCCTTAGTCTTTTTCTTGTAATAATTGATGTTCTTTAAATCGTTAATGTATA
ACAGGGCTTATGTTTCAGTTGTTTTCCGTTCTGTTTTAAACAGAAAATAAAAGGAGTGTAAGCTCCTTTTCTCA
TTTCAAAGTTGCTACCAGTGTATGCAGTAATTAGAACAAAGAAGAAACATTTCAGTAGAACATTTTATTGCCTAGT
TGACAACATTGCTTGAATGCTGGTGGTTCCCTATCCCTTTGACACTACACAATTTTCTAATATGTGTTAATGCTAT
GTGACAAAACGCCCTGATTCTAGTGCCAAAGGTTCAACTTAATGTATATACCTGAAAACCCATGCATTTGTGCT
CTTTTTTTTTTTATGGTGGCTTGAAGTAAAACAGCCCATCCTCTGCAAGTCCATCTATGTTGTTCTTAGGCATTCT
ATCITTGCTCAAATTGTTGAAGGATGGTGATTGTTTCATGGTTTTGTATTTGAGTCTAATGCACGTTCTAACA
TGATAGAGGCAATGCATTATTGTGTAGCCACGGTTTTCTGGAAAAGTTGATATTTTAGGAATTGTATTCAGATC
TTAAATAAAATTTGTTTCTAAATTC

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FIGURE 6247

MSSRKQGSQPRGQQAEEENFKKPTRSNMQRSMRGASSGKKTAGPQQKNLEPALPGRWGGRSAENPPSGSVRKT
RKNKQKTPGNGDGGSTSEAPQPPRKKRARADPTVESEEAFKNRMEVKVKIPEELKPWLVEDWDLVTRQQLFQLP
AKKNVDAILEEYANCKKSQGNVDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEILLAHDPAPMSQVYGA
PHLLRLFVRIGAMLAYTPLDEKSLALLLGYLHDFLKYLAKNSASLFTASDYKVASAEYHRKAL

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FIGURE 6248

TTGGTCTAAGACATGGGCTGACAACTTTTTCCATAAAGGGCCAGAAAGTAAATATTTTCAGGCTTTGTGGGATAT
CTATTTATGATTTATTTTACTCCTAGTATTATTTTCATCTTTTATACAGGTTAATTAAGGTTAGTATTGCTGCATAA
CAAATTACTCCAAAATTTAATCATTATATTCAAGAAGAGTTTCAGCTGCTAGGTTTCTTATTTTGGGACTCTCATG
ATGCTGAGGTCAAGATGCCAGCTGGAGGCCAGGCGCCGAGCTCACGCCTGTAATCCCAGCGTTTTTGGGAGGCCA
GGGGCCTCCCAAATTCAAAAGGAAGAGACAAAGTCCACATCTGTCAATGCGAAGAATGGAAAGGTCACATATCAT
ATGTGGAGCGGGACATAACAACCTTCGGAAATTAAATCTCTTCCCCAGGTCAGTGTGCGGGCCTTCCACGCTGCCA
GCGGAACACTGGAATGGCGGAAGGGGAACGGGTACGGCAGGGGGAAAGGCTGGGGGTGGGGTCGGGTTCGAGTCGA
GGGAAGCTGGCCCAGTGTGGACAGAGATGGCGGTCTGCGCGTCTGTTGTTCCCAGCGCTCTGCGAAGCCTGAAA
AGGAGGAGCAACCTGTCCAGAATCCCCGCAGGTCCGTGAAAGACAGGAAAAGGAGGGGAAATCTCGACATGGAAA
AACTCTACAGTGAAGAAATGAAGGAATGGCTTCAAACCAAGGAAAGATGGAAAATGAAGAACAGCCACAAGACGAGA
GAAAGCCAGAAGTAACTTGTACTCTGGAAGACAAGAAGTTAGAAAACGAGGGAAAGACAGAAAACAAGGGCAAAA
CAGGAGATGAGGAAATGTTAAAGGATAAAGGAAAGCCAGAGAGTGAGGGAGAGGCAAAAGAAGGAAAGTCAGAGA
GGGAGGGAGAGTCAGAGATGGAGGGAGGATCAGAGAGAGAGGGGAAAACCAGAGATAGAGGGAAAGCCAGAGAGTG
AAGGAGAGCCAGGGAGTGAAACAAGGGCTGCAGGAAAGCGCCAGCTGAGGATGATGTACCCAGGAAAGCCAAAA
GAAAAACTAATAAGGGGCTGGCTCATTACCTCAAGGAGTATAAAGAGGCCATACATGATATGAATTTTCAGCAATG
AGGACATGATAAGAGAATTTGACAATATGGCTAAGGTGCAGGATGAGAAGAGAAAAAGCAAACAGAAATTGGGGG
CGTTTTTGTGGATGCAAAGAAATTTACAGGACCCCTTCTACCTAGAGGTCCAAGGGAATTCAGGGGTGGCTGCA
GGGCCCCACGAAGGGACATTGAAGACATTCTTATGTGTAGTGTCCCTGGCAGGCATTTACCAGGCCATGTGCTT
TAACGTTACGGTAATACTTTACTTTAGGCATCCCTCCTGTTGCTAGCAGCCTTTTGACCTATCTGCAATGCAGTG
TTCTCAGTAGGAAATGTTTCATCTGTTACATGGAAAAATGTTGATGGTGCATTGTAAAATTAAAAACACAACCTT
GCAGAACCAAAAAAAA

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FIGURE 6249

MPAGGQAPQLTPVIPAFWEARGLPNSKGRDKVHICQCEEWKGHISYVERDITTSEIKSLPQVSVRAFHAASGTLE
WRKGNGYGRGKGWGWGRVESREAGPSVDRDGGGLRVCCSQRSAPKEKEEQPVQNPRRSVKDRKRRGNLDMEKLYSE
NEGMASNQGKMENEEQPQDERKPEVTCTLEDKKLENEGKTENKGKTGDEEMLKDKGKPESEGEAKEGKSEREGES
EMEGGSEREGKPEIEGKPESEGEFPGSETRAAGKRP AEDDVPRKAKRKTNKG LAHYLKEYKEA IHDMNFSNEDMIR
EFDNMAKVQDEKRKSKQKLGAFLWMQRNLQDPFYPRGPREFRGGCRAPRRDIEDIPYV

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FIGURE 6250

GAAGTCCTGGTAATCTGGTCCTTGTTCCCGTCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTGGTCCCTGAG
GCCCCGTGGAAGGAGTCAAACCTTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAAG
CTAGAAAAGGAGGAGGAAGAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAAA
GAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAATCCTGTCAAAAAATGGAAGGAAAACCAGAAAAAT
GAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGAG
GCCAAAGCAAAAGGAACCTTTAGAGAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAGG
CATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAACAACTTATA
GTGATGCGTTGGAAGGTTAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATAT
TAACAATACCATATAGCTTGCTTTTTATTAGCATTTCCTGATATTCCTTTGTCCATATTTCTACTTATAACCTGT
TGCTATTAATGGTTTTAGATGTATCTTGTATCTGCATCTCATTGTTTATTGTATTTTGAACCAATCTACAAG
TCTCTGTCTTTTAAATAAAAGAACTTTACACATTTGTAAAAAAGAGGTTCTTGGAAGATATAAAATGGAAAAAGG
CTAAGTAATATGTGAATATCATATTTTTGAAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTTG
TGAAGGATGAAAGAAAGTACAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTGTGATTT
TCTATATTCTAAAAATTAACACACATTATTATTGCTAGAATAATAAAAGTTTTAT

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FIGURE 6251

CAGGATGACAGCTGGAGAAATGGAGTCAGTTTTATCCAAGTATGAAGATCAGATTACTATTTTCACTGACTACCTA
GAAGAATATCCAGATACAGATGAGCTGGTATGGATCTTAGGGAAGCAGCATCTCCTTAAAACAGAAAAATCTAAG
CTGTTGCTCTGATATAAGTGCTCGTCTATGGTTTACATACAGAAGGAAATTTTACCAATTGGTGGAACGGGGCCCT
TCATCAGATGCTGGTTGGGGATGTATGCTACGCTGTGGACAGATGATGCTGGCTCAAGCCCTTATCTGTAGACAC
TTGGGAAGGGACTGGAGCTGGGAGAAACAAAAAGAACAACCCAAAGAATACCAACGCATCCTACAGTGCTTCTTA
GATAGAAAAGATTGTTGCTACTCTATCCATCAAATGGCACAAATGGGTGTAGGAGAAGGGAAATCAATTGGAGAA
TGGTTTGGACCAAATACAGTTGCACAGGTGTAAAAAACTTGCTTTATTTGACGAATGGAATTCCTTGGCTGTT
TATGTTTCAATGGATAACACAGTGGTCATTGAAGATATCAAAAAATGTGCCGTGTCCTTCCCTTGAGTGCTGAC
ACAGCTGGTGACAGGCCTCCCGATTCTTTAACTGCTTCAAACCAGAGTAAGGGCACCTCTGCCTACTGCACAGCC
TGGAACCCCTGCTGCTCATTGTGCCCCCTTCGCCTGGGCATAAACCAAATCAATCCTGTCTATGTTGATGCATT
AAAGAGTGTTTTAAGATGCCACAGTCTTTAGGGGCATTAGGAGGAAAACCAAATAACGCGTATTATTTTCATAGGA
TTCTTAGGTGACGAGCTCATCTTCTTGGACCCCTCATACAACCCAGACCTTTGTTGACACTGAAGAGAATGGAACG
GTTAATGACCAGACTTTCCATTGCCTGCAGTCCCCACAGCGAATGAACATCCTAAACCTGGATCCTTCAGTTGCA
TTGGGATTTTTCTGCAAAGAAGAAAAAGACTTTGATAACTGGTGTAGCCTTGTTTCAGAAGGAAATTCTAAAGGAG
AATTTAAGGATGTTTGAATTAGTTTCAGAAACATCCATCACACTGGCCTCCCTTTGTACCTCCAGCCAAGCCAGAA
GTGACAACCACTGGGGCAGAATTCATTGACTCTACTGAGCAACTGGAGGAGTTTGATCTGGAGGAAGATTTTGAG
ATTCTGAGTGTTGAATCCTGGGAACCACTTGAAGTCTG

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FIGURE 6252

MESVLSKYEDQITIFTDYLEEYPDTDELVWILGQHLLKTEKSKLLSDISARLWFTYRRKFSPIGGTGPSSDAGW
GCMLRCGQMMLAQALICRHLGRDWSWEKQKEQPKEYQRILQCFLDRKDCCYSIHQMAQMGVGEKKSIGEWFGPNT
VAQVLKKLALFDEWNSLAVYVSMNTVVIEDIKKMCRVPLSADTAGDRPPDSLTAQNQSKGTSAYCTAWKPLLL
IVPLRLGINQINPVYVDAFKECFKMPQSLGALGGKPNNAYYFIGFLGDELIFLDPHTTQTFVDTEENGTVNDQTF
HCLQSPQRMNINLDPVALGFFCKEEKDFDNWCSLVQKEILKENLRMFELVQKHP SHWPPFVPPAKPEVTTTGA
EFIDSTEQLEEFDLEEDFEILSV

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FIGURE 6253

CTTTCCTCTCCCAACATGCGGCCTCAGCAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACCTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCCTTCGAGGATTAAAT
ATCAGTGCAGTGCCTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACA
GATACGGACTGGAGGGCTTGTCTGCTACAGACAGCTTTGATGACTAGAGAGGTGATGATAGCTTTGGAGACAA
GTATGATCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGG
CGGGGACCGCTATGAAGACTGATATGACAGACGGGATGA

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FIGURE 6254

MAASAKKKKKGKTI SLTDFLAEDGGTGGGSTYVSKPVSWADEITDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT
APRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFYAEFEDLDSL
LSALSLNEESLSNRRIRVDVADQALDKDRDDPPFGRDRNRDSKTDTDWRARPAIDTFDDYPPRRGDDSF GDKL

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FIGURE 6255

CTTTCCCTCTCCCAACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACCTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCCTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGAGTATCGGGATCGTTATGATTCAGACCGGTATCGGGATGGGTATCGGGATGGC
CCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGCTATGATGACCAAGGCAGCAGAGACTATGATAGAGGC
TATGATCCCGGATAGGCAGTGGCAGAAGAGCATTGGCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGGC
GGGGACCGCTATGAAGACTGATATGACAGACGGGATGATCGGTCGTGGAGCTCCAGAGATGATTACTCTCGGGAT
GATTATAGGTGTGATGATAGACGTCCCCCCCCAAGACCCAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAA
GATGATTCCTCTGCTAGTACCTCCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTTG

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FIGURE 6256

ATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGGATGGG
GGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGATGACCTGGAAGGAGATG
TTTCGACAACCTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGTTCCATCCTTCCCCTG
CTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGCTTTCCTCCAAATCGCCACCCTACACTGCTTTTCTAG
GAAACCTACCTATGATGTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAATATCAGTGCAGTGCCTT
TACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAGGACCTGGATTCCCTGC
TCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTTGCTGATCAAGCACAGG
ATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACGGACTGGAGGG
CTTGCTCTGTACAGACAGCTTTGATGACTAGAGAGGTGATGATAGCTTTGGAGACAAGTATCGGGATCGTTAT
GATTTCAGACCGGTATCGGGATGGGTATCGGGATGGCCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGC
TATGATGACCAAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTGGC
AGCGGGTATCGCAGGGATGATGACTACAGAGGAGCGGGGACCCTATGAAGACTGATATGACAGACGGGATGAT
CGGTCTGTGGAGCTCCAGAGATGATTACTCTCGGGATGATTATAGGTGTGATGATAGACGTCCCCCCCCAAGACCC
AAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAAGATGATTCTCTGCTAGTACCTCCAGTCCACTCGAGCT
GCTTCTATCTTTGGAGGGGCAAAGCCTGTTGACACAGCTGCTAGAGAAAGAGAAGTAGAAGAACGGCTACAGAAG
GAACAAGAGAAGTTGCAGCGTCAGCTGAGTGAGCCAAAACCTAGAACGACGGCCTCGGGAGAGACACCCAAGCTGG
CGAAGTGAAGAACTCAGGAACGGGAACGGTCAAGGACAGGAAGTGAGTCATCGCAGACTGGGACCTCCACCACA
TCTGGCAGAAATGCACGAAGGAGAGAGAGTAAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGC
CACTCTCCAACCTTCTAAACCTCCCAAACCTGATCAGCCCCTAAAGGTAATGCCAGCCCCTCCACCAAAGGAGAAT
GCTTGGGTGAAGCGAAGTTCTAACCTCCTGCTCGATCTCAGAGCTCAGACGCAGAGCAGCAATCCCCTACAAGT
GGTGGGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGCAAGGCAAGATGAAAATAAAGTAGATGGG
ATGAATGTCCCAAAGGCCAACTGGGAACCTAGCCGTGGTCCAGGAGACGGAGGGAACAAAGACCACTGGAAG
GAGTCAGATAGGAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAAT
CCAGCTTCCAAGTTCAGTTCTGCAAGCAACTATGCTGCTCTCTTGTATGGTGAAGATGAAAATGAGGGAGAAGA
TTATGCCGAATAG

6773/6881
FIGURE 6257

AAAGTTGCTAGCTGGGGGCAGAGACGGCCACGCGGTTGCAGGAGTAAGAGATCCCTCTGTGGCGAATTGGCCAAC
GGCTCCTTTCAACCTGCCTCGTTGGTGGCCACTGGAGAAGCGCGGGGGCTCCCCAGACAGCCGTGGGGACAA
GTAGAGCCAGCACTTTACCCCGGCCCTTGCCTGTAGCTTCCCCTCCCCTACTCTCGGTGCCCTGGTGTCTGGAG
GGGGTTGTGGGGGTGTGCCCCGCTTACATGGTCCACCACCCGGGCAACCCTCTGGGCTTGTGTTCCATCTCACT
CTTGCTTCCTGTACTGTGGTCAAGGGGAACCACTGCATCATGTCCTCCGGTATAGCTACCAGAGTCTCCTGGACTGG
CTCTATGGGGGCGTGGACCCCAAGTTTGCAGGCAATGGGGGCCCGACTGTGCTGCCTTCCCTCTCTTGGCAGCAG
CGGCTGCTGGAAAGTGTGGTGGTCTGACCCTGGCTCTGTTGGAGATCCTGGTGGCCCTGCGGCACATCCTGAGG
CAGACGAAGGAGGACGGTAGGGGTAGCCCTGGCAGCCAGCCAGAGCAGGTGACCCAGCGGCAGAGGAAGGCAAG
GAGAGCCTGAGCAAGAATCTGCTCTTAGTAGCCCTGTGCTGACCTTCGGGGTGGAGGTGGGCTTTAAGTTCGCC
ACCAAGACCGTCACTACCTGCTCAACCCCTGTACCTGGTCAACCATGATGCATCTCCCCTTTGAATTGGAGATT
TACTACATTACAGCATGTTATGCTCTACGTGGTACCCATCTACCTGCTTTGGAAAGGAGGTGCTTACACTCCAGAG
CCCCCTCAGCAGTTTCCGGTGGGCTCTTCTCTCAACTGGCCTCATGTTCTTTATCACTTCAGCGTCTTGCAGATC
CTCGGCCTGGTCAACGAAGTGAATTTGAACAACATGCTGTGTCCGGCCATCTCAGACCCATTCTACGGCCCCCTGG
TATCGCATCTGGGCTCGGGACACCAGACTCTCATGACCATGACCCACGGGAAGCTGGTCATCCTGTTCTCATAC
ATGGCTGGGCCCTTGTGTAAATATCTGCTGGATTGCTCCGGCTTCCAGCCAAGAAAATAGACTGAAGGTGCTTA
TTTTTTTTTTTTTCTCCCTGAGGAAGCAAGTCGTGACTTGACTTGGAGAACACCCAGTTCTTGATAAAATCATG
GGAGAGGGCAGTAGGATGTTTGGTGTATTTCTTTTTCTCTCTTCTGTCCCTTTCTTCTACCACTCTTCTTTCC
CAGCTCTTCCCCCTACGATGTCTCCTTGAGCCTGGGGGTAGTGTGCTGGGCGCTGGATTTTCTCTCTCCCTTTGG
CTCTCTCTCAAACCTTCATCGCATTATAGAAAGCTGCTTGCAGGGTCGCCGGGCTAACCAGGGTGATCGGCGAAC
TTTACCGTACAGTACCTCAGTCTAGCTGTGATCAGATCACCCCTTTTGCTGTAGCCTCTGTTGAGGTTTTTATATTG
TGATCATTGGTAATTCAGTGTCTATGAAGTGGGCACAGCTCCCCACAGAGAGCAAGTTGTCAGCAGGTCTCTGT
GCACTGGTATTGGGGCAGGGCAGTGCCTGGGGGTAACTAGGTGGCTCAGGGAGTGGCAGAAGGGCCATTTTTC
CCTCTGCCAAAAGACTTCTTGGATTGTAGATGTTGACCCAGAGTCTCTGTCCCTCCTGAAGAGGATTTTC
TTACTGGTTTCTACTGAAGGGGAGGTAGGGGAGGAGGAAAAAGGACCATGTGTGATGCTGTAGACAAGACACT
GACGCTGATTATGGAGGGTCTCCTGCAGGCCCTTGTGGGCTCCTTGGCAAGGCCCCAGGCTGGGAAGGAGCTCCC
CCCACTGCCCATCCTGCCCCGCTTTGTGGCGGGTAGAGTCAGTGACAGGGAGGCAGCCCTCCTTTTGTGTATATAG
AGTGAGCTGATTGGGGCTCAGGAAAACCTAGTCGCTTGTGCTCTCGTCTGTGACATTTTGTACACTGGTTTGC
TACTCATGGCAAGAAACAGACAAAGCCCCATGAAAAATAAAACAAAACAAAAGTCATTTCAAACAAAGCTGTTGT
TTTGAAACTCTTGCTTTCTTTTGGTGTCCATTTTGTGTTCTATTTTAAAGAATCTTTCATTTATATTGGTGTTA
TTGTAGTGAAGAGAATGTGATAGGCTGATCTGTAATGGTTTCTGTGAGGAGCTTAGCAAATGCCTCTGCCCTCT
TCCCCTACCCCTGTCTTCTCAGTTCACAGCTGGGATTGCTATGCACTGGGCAGACCCGTCAGTGTCTCCCTG
AACCCACACAGTGGCTTCCCTTAGAACAGTCTTTGACTCTCCCTAAACAGCAGCAGGCTTAGGATTTTGT
CAGGCTGGTTCTTGGTGTCTGTGCCCCCACCAGTTGCTCACCTCTTGGGGCATTGTGTAATGTGTTTCTCT
GTCTTGAAACCTTTTGATTGTACCGAAATGGTATCTGCAGTCGCCTTTGAAATAAATGGTCATTAATTTGTG
TACTTAGCATTCTGAAAAAAAAAAAAAAAAAAAAAAAAA

6774/6881
FIGURE 6258

MSRYSYQSLLDWLYGGVDPSPFAGNGGPDCAAFLSWQORLLESVVVLTLLALLEILVALRHILRQTKEDGRGSPGSQ
PEQVTQRPEEGKESLSKNLLLVALCLTFGVEVGFKFATKTVIYLLNPCHLVMTMMHLPFELEIYYIQHVMLYVVP I
YLLWKGGAYTPEPLSSFRWALLSTGLMFFYHFSVLQILGLVTEVNLNNMLCPAISDPFYGPWYRIWASGHQTLMT
MTHGKLVILFSYMAGPLCKYLLDLLRLPAKKID

6775/6881
FIGURE 6259

ATGCTGTATGAATTCCAAACTGTTGCTTCACACCCAATGTCAGGATACTCAACCATGATTGGAATCAATAAACTA
CAGGACTTCTTGCCACGTGCGCCTTCAAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGG
CTGAGAGGCGGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAAC
ACCGCCCCACGGGACCGCTCTCGAGGTCCCCAAGCCAAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCT
TCCTGTCCGGGAACGGCCCCGGCGTCTGGCTGTCCAGCTAGTCCCTGGCGCCTCTCTCTGGGGCTTCCACCGCCCG
ACCCCGCGGGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATCCGTCCGAGCACCTGCCCTAGTCCTGCC
TGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGCGAAGGCACCGGCAAGGGGCTGGGGGAA
GAGCCACGCCAGCCTACGTACGCAGGAAGGGAGCCAGTGGCCACCCCAAACACACCTCTCCTCCTCACACCTG
GCCTACGTCCAACCTCTCCACGGCTCTACCCAGAAGGCTGCACGACTTCTTGCCACGTGCGCCTTCAAAACGGTA
AGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGGGAGAGATGCCCATGAACTCAAG
TACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCACGGGACCGCTCTCGAGGTCCCCAAG
CCAAGGCAGAGTCCGACGGGTCTTCTTCTGGGTGCCCCCGGCTTCCCGGACTCCAGCAGGCCTGGGAAGGCC
CGGGCCCCCTTAGCCGATGCCAGAGAGTCTCCATTCTCAAGCTTTGCCACCGAACTCATCGGTGCGACGCAAG
GAGGAACGCCCCGGCGCCGGCCAGCAGCGGCGGGCACC GGCGCCAATGGCCACGGAACCTCAGCACTGGCAGTCGG
CCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGAGCCGTACCC
CGGTTGCTCCACGGGAAGGGGCACCAGGCAAACCTGCCAAGGCCCGAGCCAGGCTCCCTGGCGGAGGCCTCC
GCTGGTCCCGCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCTTCTGTCCGGGAACGGCCCCGGCGTCC
TGGCTGTCCAGCTAG

6776/6881
FIGURE 6260

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPGAGQRRAPAPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPPLAPEPWLPVRERPGLAVQLVLAPLSGASTARPRGGACFS
RTSRDLGSVRAPALVLPGPPGQSQATPPQASTAKAPARGWGKSPRQPTSRKKGASGHPKHTSPPHWTWPTSNSPRL
YPEGCTTSCPRAPSKR

6777/6881
FIGURE 6261

ATGCCCCGCGGCCAACTTTCTTCCTTGGACCCACAAGGAGGAACGACCCGGGTGCCGGCAAGAAGCCGCCGGGAA
GCCCCGCGCCATTGGCACACGGAATCTCGGCAATTGCCAATTCGGCCTACTTACAAACCGCAAGGCTTGCCATTTT
GGCCCAACGGAACCTTCCCGGCCCAAGAACCCAGCTTGGCCCTTAACCCCGTTTGCTTCCACGGGAAGGGGCAA
CCAAGCAAAATGCCCAAGGCCCGGAGCCAGGGGTCCCTGCCGAAGGCCTCCGCTGGTCCCGCCAGATCATGG
GCGCCACCAGGCTCCCGAGCCGTGGCTTCCCTGTCCGGGAACGCCCCGGCGTCTGGCTGTCCAGCTAGTCCTGGC
GCCTCTCTCTGGGGCTTCCACCGCCCCGACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATG
CGTCCGAGCACCTGCCCTAGTCCTGCCTGGTCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGC
GAAGGCACCGGCAAGGGGCTGGGGGAAGAGCCACGCCAGCCTACGTACGCAGGAAGGGAGCCAGTGCCACCC
CAAACACACCTCTCCTCCTCACACCTGGCCTACGTCCAACCTCTCCACGGCTCTGCCCAGAAGGCTGCACGACTTC
TTGCCCACGTGCGCCTTCAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGC
GGCGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCAGAGTAACACCGCCCC
ACGGGACCGCTCTCGAGGTCCCCAAGCCAAGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCCCCGGA
AGGCCCCCAGGCAGAAATGAGCACACGGGGAACGCCCCGCCTCCAAGACAACCTCGGGGACATGGACACAACAA
GACAGGGTGGCAAGTCTCAACAAGCGGGTGC CGCGCGTCTGAAGGCGTGAGTGTGGCCGACGGAGCCTCCCGG
GCCGAGGACCCAGCTAGGCCGTACCCCGGTTGCTCCACGGGAAGGGGCACCAGGCAACTGCCCCAAGGCCCCG
AGCCCAGGCTCCCTGGCGGAGGCCTCCGCTGGTCCCGCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGC
TTCCTGTCCGGGAACGCCCCGGCGTCTGGCTGTCCAGCTAG

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FIGURE 6262

MPRGQLSSLDPQGGTTRVPARSRRARAIGTRNLGNCQFGLLTNRKACHFGPTEPSRPKNPAWPLTPVCFHGKGO
PSKMPKAPEPRGPCRRPPLVPPRSWAPPGSRAVASCPGTARRPGCPASPGASLWGFHRPTPRRSLLLSDLQRPRM
RPSTCPSPAWSPTVPSHSSPGEHSEGTGKGLGEEPTPAYVTQEGSQWPPQTHLSSSHLAYVQLSTALPRRLHDF
LPTCAFKTVRAATERVRHGADRLRGGGRDAHELKYPDTPSTSTTSNTAPTGPLSRSPKPRARACAPPKTSQVPG
RPPGRNEHHGERPASKTTSGTWTQQDRVASLNKAGARRLKACSVADGASRAEDPARPSRLLPREGAPGKLPKAP
SPGSLAEASAGPAQIMAATRLPSRGFLSGNGPASWLSS

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FIGURE 6263

CCCTCACCTCCCAGGAATGGGGAGGGGGCATCCTACCCCATATCTGAGGTGCGACTGCGGGACGTAGAGCGGACT
GGGCCTTTCCCGTTGGCGCGTGGCCTCAATCAGGACTTCTTGCCACGTGCGCCTTCAAAACGGTAAGAGCTGCA
ACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCCATGAACTCAAGTACCCGGAC
ACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCACGGGACCGCTCTCGAGGTCCCCAAGCCAAGGACG
CAAGGAGGAACGCCCCGGCGCGGCCAGCAGCGGCGGGCACCGGCCAATGGCCACGGAACCTCAGCACTGGCAG
TCGGCCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGGCCGTCA
CCCCGGTTGCTCCACGGGAAGGGGCACCAGGCAAACTGCCCAAGGCCCGAGCCAGGCTCCCTGGCGGAGGCC
TCCGCTGGACTTCTTGCCACGTGCGCCTTCAAAACGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCC
CCGGAAGGCCCCCAGGCAGAAATGAGCACCACGGGGAACGGCCCGCCTCCAAGACAACCTCGGGGACATGGACAC
AACAAGACAGGGTGGCAAGTCTCAACAAGGCGGGCTGGCGTGGGCTCTTCCCCAGCCCCCTTGCCGGTGTGCCA
CGTGAGAAGGGCCCGGTGCCGTCCCGCTATTCCGGAATTGTGGGTTACCTGAAGTTTGAGGCCAAACCCCCA
GCGGTCAGTGGGACGCCAGTCGCCTTTGACCTCTTGGTCAAGCTGGCCTTGCCGTGA

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FIGURE 6264

MPMNSSTRTRPPLLPFRVTTPPRDRSRGPPSQGRKEERPGARPAAGTGPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHFGCSHGKGHQANCPRPRAQAPWRRPPLDFLPTCAFKTGKGLRTPKDKRGPRKAPRQK

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FIGURE 6265

AGGGAGCGCACGACGTGCGCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCTCCTTCTTCTGCAGCTCCTGGTGC
TGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCC
ATGGCCGACGAAAAACCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGAG
GATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGA
CAGGGATTGTCAGTGAGGCAGATCAGATTCCGATTGACGGGCAACCAATCAATGAAACAGACACACCTGCACAG
TTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTG
CTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACCTGCAATTTGGTTCCAC
CACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTCAATTTCCCCCTTCCCTATTCCCTTTATTGTACATAAA
GTAAGTGGTATATGTACACAAGCATATTGCATTTTTTTTTAACTAAACAGCCAATGATATGTTTGTATTGACATCA
AGTGGAGATGGGATGGGAAAAATACTGATTCTGTGAAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTAG
CTCTTATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTTAACAAAAACAACAACAACAACATAAAA
ATCCTTGCATACCTTTTTCAATTGGAGAATTTTAATGATTTTCATTTATCATTGTAAAACCAAGGACAATTTTAT
AACTTTTTCGTACATAGCTGCTACATGTAGGGCAATCTGTCITTAAGTAGGGATAAATTACTCTAAAACAAAAAA
GAATCCTAGATACTTTCCCTTCAAGTCAAGCGTCTTGTTTAAATAAACTGCTTGTTTAAATG

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FIGURE 6266

MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSVRQIRFRFDGQPINETDTPAQ
LEMEDEDTIDVFQQQTGGVY

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FIGURE 6267

GCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCCTCCTTCTTCTGTCAGCTCCTGGTGCTGCTTGTGTGCTCGTTTG
GTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCCATGGCCGACGAAAAACCC
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG
TTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAGTGGAATGGAGGATG
AAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACCTGCAATTTGGTTCCACCACATCCTGACTACTA
CCGTATAGTTTTCTCTATTCTTTCATTTCCCCCTTCCCTATTCTTTATTGTACATA

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FIGURE 6268

CACAACAAACAGGCCACTGAGAATACAAAGGAGGAAGTGAAACTATGTGAGAAGATGGCCCAGTCTGATGCTAA
AAAGTTTGTGGAAAGCCAGCCTAAAAAGGACACACCACGGAAAGAGAAGCGTTCACGGGAAGAGAAGCAGAAGCC
CCAGGCTGAGCAGGAGGAGAAAAAGGCGGCTGCCCTACTCCTGAGGAGGAGATGGATGAATGTGAGCAGGCGCT
GGCCGCTGAGCCCAAGGCCAAGGACCCCTTTGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTGAAGCT
CAAGTACTCCAATGAGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACTGCTGGTCC
CTGTGGTACTCAGAGTGTGCTTCCCTGAAGAATTCAGTCTCAGACCTTCATGAGCTGCAATCTCATCACTGGAATG
TTCCAGTGAAGTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTCTCCTCTTTGGAACCAACAATATCAGCTCC
ATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCCTTTCCACTGAGTCCAGATTGGCAGGTGGGCTATGAG
TCATACACATGGCAGAACTGGATCCTGGCAGCGAGGAGACCCAGATGCTGGTTCGAGAGTACTTTTCCTGGGAG
GG

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FIGURE 6269

ATCTTTAAATGGATGAGATGGCTACCACCTCAGATTTCCAAAGATGAGCTTGATGAACTCAAAGAGGCCTTTGCAA
AAGTTGATCTCAACAGCAACGGATTCAATTTGTGACTATGAACCTTCATGAGCTCTTCAAGGAAGCTAATATGCCAT
TACCAGGATATAAAGTGAGAGAAATTATTCAGAACTCATGCTGGATGGTGACAGGAATAAAGATGGGAAAATAA
GTTTTGACGAATTTGTTTATATTTTTCAAGAGGTAAAAAGTAGTGATATTGCCAAGACCTTCCGCAAAGCAATCA
ACAGGAAAGAAGGTATTTGTGCTCTGGGTGGAACCTTCAGAGTTGTCCAGCGAAGGAACACAGCATTCTTACTCAG
AGGAAGAAAAATATGCTTTTGTTAACTGGATAAAACAAAGCTTTGGAAAATGATCCTGATTGTAGACATGTTATAC
CAATGAACCCTAACACCGATGACCTGTTCAAAGCTGTTGGTGATGGAATTGTGCTTTGTAAAATGATTAAACCTTT
CAGTTCCTGATACCATTGATGAAAGAGCAATCAACAAGAAGAACTTACACCCCTTCATCATTAGGAAAACTTGA
ACTTGCCACTGAACTCTGCTTCTGCCATTGGGTGTCATGTTGTGAACATTGGTGACAGAAAGATTGAGGGCTGGGA
AACCTCATCTGGTTTTGGGACTGCTTTGGCAGATCATTAAAGATCGGTTTTGTCGCTGACATTGAATTAAGCAGGA
ATGAAGCCTTGGCTGCTTTACTCCGAGATGGTGAGACTTTGGAGGAACTTATGAAATTGTCTCCAGAAGAGCTTC
TGCTTAGATGGGCAAACCTTCATTTGGAAGCTCGGGCTGGCAAAAAATTAACAACCTTTAGTGCTGACATCAAGG
ATTCCAAAGCCTATTTCCATCTTCTCAATCAAATCGCACCAAAAGGACAAAAGGAAGGTGAACCCAGGATAGATA
TTAACATGTCAGGTTTTCAATGAAACAGATGATTTGAAGAGAGCTGAGAGTATGCTTCAACAAGCAGATAAATTAG
GTTGCAGACAGTTTTGTTACCCCTGCTGATGTTGTGTCAGTGGAAACCCCAACTCAACTTAGCTTTTCGTGGCTAACC
TGTTTTAATAAATACCCAGCACTAACTAAGCCAGAGAACCAGGATATTGACTGGACTCTATTAGAAGGAGAACTC
GTGAAGAAAGAACCTTCCGTAACCTGGATGAACTCTCTTGGTGCAATCCTCACGTAAACCATCTCTATGCTGACC
TGCAAGATGCCCTGGTAATCTTACAGTTATATGAACGAATTAAGTTCCCTGTTGACTGGAGTAAGGTTAATAAAC
CTCCATACCCGAAACTGGGAGCCAACATGAAAAAGCTAGAAAACTGCAACTATGCTGTTGAATTAGGGAAGCATC
CTGCTAAATTCTCCCTGGTTGGCATTGGAGGGCAAGACCTGAATGATGGGAACCAACCCCTGACTTTAGCTTTAG
TCTGGCAGCTGATGAGAAGATATACCCTCAATGTCTCTGGAAGATCTTGGAGATGGTCAGAAAGCCAATGACGACA
TCATTGTGAACTGGGTGAACAGAACGTTGAGTGAAGCTGGAAAATCAACTTCCATTAGAGTTTTAAGGACAAGA
CGATCAGCTCCAGTTTGGCAGTTGTGGATTTAATTGATGCCATCCAGCCAGGCTGTATAAACTATGACCTTGTGA
AGAGTGGCAATCTAACAGAAGATGACAAGCACAATAATGCCAAGTATGCAGTGTCAATGGCTAGAAGAATCGGAG
CCAGAGTGTATGCTCTCCCTGAAGACCTTGTGGAAGTAAAGCCCAAGATGGTCATGACTGTGTTTGCATGTTTGA
TGGGCAGGGGAATGAAGAGAGTGTAATAAATCAATCTGAATAAAACAGCCATGCTCCCAGGTGCATGATTGCA
GGTCAGCTATTTCCAGGTGAAGTGCTTATGGCTTAAGGAACCTTGGCCATTCAAAGGACTTTTCATTTTGATTA
ACAGGACTAGCTTATCATGAGAGCCCTCAGGGGAAAGGGTTTAAGAAAAACAACCTCCTCTTTCCCATAGTCAGAG
TTGAATTTGTGAGGCACGCCCTGAAATGTGCTCATAGCCAAACATTTTACTCTCTCCTCTAGAAATGCTGCCCTT
GACATTTCCCATTTGCTGTATGTTATTTCTTGCTCTGTTATCTTTTGCCCTCTTAGAATGTCCCTCTCTTGGGACT
TGCTTAGATGATGGGATATGAATATTATTAGACAGTAATTTTGCTTTCCATCCAGTATGCTAGTTCTTATTTCGAG
AACTATGGTCAGAGCGTATTTGGATATGAGTATCCTTTGCTTATCTTTGTAGTACTGAAAATTTGCCGAAGTAAC
TGGCTGTGCAGAATGTAATAGAAGCTTTTCTTATTCTTTTATTCTTAAGATCAGTATCTTTTTACAGTATTCTTT
CTACATGATCCTTTTTTGTACATTTAAGAATATTTTGATTATATTAAACAAGACTGCTGATTTTGCTACTTTTTT
TAAGGGGTCTTCAAGTAAGTAAACATACATCGTAGCTAGAAGAAAAATGTACCTTAAATTTGCATCTTCCCTCT
CATACCCAAGCTGTAAACAATTGAAATATTTTGTCTTAAATCACTTGGTTCAATACATGCTTATTTGTTTTAAAA
CCTGTATCATCAAACCTCTCTCTCTAAATTTAAAAATGCTGTTGAATATGATACTTTTGAGGAGAGAGTGTGCTCAG
AACTTAGACGGGATTTGGTAGGCCAAGTATGCTAAGTGTACAAATATATTTTTTAATTTTACACCTGAAACAAAGA
AATGTGGTCACTAAAAATAAAGTATATATGTAGGAATTAATGTACTCTTGCTTTGTCAAGCTGTTTGCTATAGT
TTCCAAGGTATTATGTTACTCTAACTCTGAAAAGTGATGTAATCTGGTAGCAATGTAGTAGTTCAAATAAAGGCA
TTTACATAAT

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FIGURE 6270A

TGCCAAGGCTCCAGCCCGGCCGGGCTCCGAGGCGAGAGGCTGCATGGAGTGGCCGGCGCGGCTCTGCGGGCTGTG
GGCGCTGCTGCTCTGCGCCGGCGGGCGGGGGCGGGGGCGGGGGCGCCGCGCCTACGGAACTCAGCCACCTGTGAC
AAATTTGAGTGTCTCTGTTGAAAACCTCTGCACAGTAATATGGACATGGAATCCACCCGAGGGAGCCAGCTCAAA
TTGTAGTCTATGGTATTTTAGTCATTTTGGCGACAAACAAGATAAGAAAATAGCTCCGGAACTCGTCGTTCAAT
AGAAGTACCCCTGAATGAGAGGATTTGTCTGCAAGTGGGGTCCAGTGTAGCACCATGAGAGTGAGAAGCCTAG
CATTTTGGTTGAAAAATGCATCTCACCCTCAGAAGGTGATCCTGAGTCTGCTGTGACTGAGCTCAATGCATTTG
GCACAACCTGAGCTACATGAAGTGTCTTGGCTCCCTGGGAAGGAATACCAGTCCCGACACTAACTATACTCTCTA
CTATTGGCACAGAAGCCTGGA AAAAATTCAATGTGAAAACATCTTTAGAGAAGGCCAATACTTTGGTTGTTT
CTTTGATCTGACCAAGTGAAGGATTCCAGTTTTGAACAACACAGTGTCCAAATAATGGTCAAGGATAATGCAGG
AAAAATTAAACCATCCTTCAATATAGTGCCTTTAACTTCCCGTGTGAAACCTGATCCTCCACATATTA AAAACCT
CTCCTTCCACAATGATGACCTATATGTGCAATGGGAGAATCCACAGAATTTTATTAGCAGATGCCATTTTATGA
AGTAGAAGTCAATAACAGCCAACTGAGACACATAATGTTTTCTACGTCCAAGAGGCTAAATGTGAGAATCCAGA
ATTTGAGAGAAATGTGGAGAATACATCTTGTTTCATGGTCCCTGGTGTCTTCTCTGATACTTTGAACACAGTCAG
AATAAGAGTCAAAACAAATAAGTTATGCTATGAGGATGACAACTCTGGAGTAATTGGAGCCAAGAAATGAGTAT
AGGTAAGAAGCGCAATTCCACACTCTACATAACCATGTTACTCATTGTTCCAGTCATCGTCGAGGTGCAATCAT
AGTACTCCTGCTTTTACCTAAAAAGGCTCAAGATTATTATATTCCCTCCAATTCCTGATCCTGGCAAGATTTTTAA
AGAAATGTTTGGAGACCAGAAATGATGATACTCTGCACTGGAAGAAGTACGACATCTATGAGAAGCAAAACCAAGGA
GGAAACCGACTCTGTAGTGTGATAGAAAACCTGAAGAAAGCCTCTCAGTGGAGGATAATTTATTTTACCTT
CACTGTGACCTTGAGAAGATTCTTCCATTCTCCATTGTTATCTGGGAACCTATTAAATGGAACTGAAACTAC
TGCACCATTAAAAACAGGCAGCTCATAAGAGCCACAGGTCTTTATGTTGAGTCGCGCACCGAAAACTAAAAAT
AATGGGCGCTTTGGAGAAGAGTGTGGAGTCATTCTCATTGAATTATAAAGCCAGCAGGCTTCAAACCTAGGGGAC
AAAGCAAAAAGTGATGATAGTGGTGGAGTTAATCTTATCAAGAGTTGTGACAACCTTCTGAGGGATCTATACTTG
CTTTGTGTTCTTTGTGTCAACATGAACAAATTTTATTTGTAGGGGAACCTCATTGGGGTGCAATGCTAATGTCA
AACTTGAGTCACAAAGAACATGTAGAAAACAAATGGATAAAATCTGATATGTATTGTTTGGGATCCTATTGAAC
CATGTTTGTGGCTATTAAAACTCTTTTAACTCTGAGTCTGGGCTGGGTCCGGTGGCTCAGCCTGTAATCCAGCAATT
TGGGAGTCCGAGGCGGGCGGATCACTCGAGGTCAGGAGTCCAGACCAGCCTGACCAAAATGGTGAAACCTCCTC
TCTACTAAACTACAAAATTAACCTGGGTGTGGTGGCGCGTGCCTGTAATCCAGCTACTCGGGAAGCTGAGGCA
GGTGAATTGTTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCAGAGATCACACCACTGCACTCTAGCCTGGGTGAC
AGAGCAAGACTCTGTCTAAAAACAAAACAAAACAAAACAAAACAACTCTTAATATTCTGGAGTCATCA
TTCCCTTCGACAGCATTTTCTCTGCTTTGAAAGCCCCAGAAATCAGTGTGGCCATGATGACAACTACAGAAAA
ACCAGAGGCAGCTTCTTTGCCAAGACCTTTCAAAGCCATTTAGGCTGTTAGGGGCAGTGGAGGTAGAATGACTC
CTTGGGTATTAGAGTTTCAACCATGAAGTCTTAACAATGTATTTCTTACCTCTGCTACTCAAGTAGCATTTA
CTGTGCTTTGGTTTGTGCTAGGCCCCGGGTGTGAAGCACAGACCCCTTCCAGGGGTTTACAGTCTATTGAGA
CTCCTCAGTCTTGGCACTTTTTTTTTTAACTCTCCACAGTCATTTTTCAGACCTTTTAACTCCTCAATTCCAAC
ACTGATTTCCCTTTTGCATTCTCCCTCCTTCCCTTCTTGTAGCCTTTTGACTTTCATTGGAATTAGGATGTA
AATCTGCTCAGGAGACCTGGAGGAGCAGAGGATAATTAGCATCTCAGGTTAAGTGTGAGTAATCTGAGAAACAAT
GACTAATCTTGCAATTTTGTAACTTCCATGTGAGGGTTTTCAGCATTGATATTGTGCAATTTCTAAACAGAG
ATGAGGTGGTATCTTACGTAGAACATTGGTATTCGCTTGAGAAAAAAGAATAGTTGAACCTATTCTCTTTCT
TTACAAGATGGGTCCAGGATTCCTCTTTTCTCTGCCATAAATGATTAAATTAATAGCTTTTGTGCTTACATTGG
TAGCCAGCCAGCCAAGGCTCTGTTATGCTTTTGGGGGGCATATATTGGGTTCCATTCTCACCTATCCACACAAC
ATATCCGTATATATCCCTCTACTCTTACTTCCCCCAAATTTAAAGAAGTATGGGAAATGAGAGGCATTTCCCCC
ACCCCATTTCTCTCCTCACACACAGACTCATATTACTGGTAGGAACCTTGAGAACTTTATTTCCAAGTTGTTCAAA
CATTTACCAATCATATTAATAAATGATGCTATTGTCAATTCCTGCTCCTAGGGGAGGGGAGATAAGAAACCTC
ACTCTCTACAGGTTTGGGTACAAGTGGCAACCTGCTTCCATGGCCGTGTAGAAGCATGGTGCCCTGGCTTCTCTG
AGGAAGCTGGGGTTCATGACAATGGCAGATGTAAAGTTATCTTGAAGTCAGATTGAGGCTGGGAGACAGCCGTA
GTAGATGTTCTACTTTGTTCTGCTGTTCTCTAGAAAGAATATTGGTTTTCTGTATAGGAATGAGATTAATTCC
TTTCCAGGTATTTTATAATTCTGGGAAGCAAAACCATGCCCTCCCTAGCCATTTTACTGTTATCCTATTTAG
ATGGCCATGAAGAGGATGCTGTGAAATTCCCAACAAACATTGATGCTGACAGTCATGCAGTCTGGGAGTGGGGA

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FIGURE 6270B

GTGATCTTTTGTTCCCATCCTCTTCTTTTAGCAGTAAAATAGCTGAGGGAAAAGGGAGGGAAAAGGAAGTTATGG
GAATACCTGTGGTGGTTGTGATCCCTAGGTCTTGGGAGCTCTTGGAGGTGTCTGTATCAGTGGATTTCCTATCCC
CTGTGGGAAATTAGTAGGCTCATTACTGTTTTAGGTCTAGCCTATGTGGATTTTTCTAACATACCTAAGCAA
ACCCAGTGTGAGGATGGTAATTCTTATTCTTTCGTTTCAAGTTTTCCTTCATCTGGGCACTGAAGGGATA
TGTGAAACAATGTAAACATTTTGGTAGTCTTCAACCAGGGATTGTTTCTGTTTAACTTCTTATAGGAAAGCTTG
AGTAAATAAATATTGTCTTTTGTATGTCAAGCGGGCCGCCACCGCGGTGGAACTCCAGCTT

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FIGURE 6271

MEWPARLCGLWALLLCAGGGGGGGGAAPTETQPPVTNLSVSVENLCTVIWTWNPPEGASSNCSLWYFSHFQDKQD
KKIAPETRRSIEVPLNERICLQVGSQCSTNESEKPSILVEKCISPPEGDPESAVTELQCIWHNLSYMKCSWLPGR
NTSPDTNYTLYYWHRSLEKIHQCENIFREGQYFGCSFDLTKVKDSSFEQHSVQIMVKDNAGKIKPSFNIVPLTSR
VKPDPPHIKNLSFHNDDLYVQWENPQNFISRCLFYEVVNNSQTETHNVFYVQEAKCENPEFERNVENTSCFMVP
GVLPTLNTVRIRVKTNKLCEYEDDKLWSNWSQEMSIGKRNSTLYITMLLIVPVIVAGAIIVLLLYLKRLKIIIF
PPIPDPGKIFKEMFGDQNDLHWKKYDIYEKQTKETDSVVLIENTLKKASQ

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FIGURE 6272

GACCCACGCGTCCGGGGAGGAGAAAGTGGCGAGTTCGGATCCCTGCCTAGCGCGGCCAACCTTTACTCCAGAG
ATCATGGCTGCCGAGGATGTGGTGGCGACTGGCGCCGACCCAAGCGATCTGGAGAGCGGCGGGCTGCTGCATGAG
ATTTTCACGTGCGCGCTCAACCTGCTGCTGCTTGGCCTCTGCATCTTCTGCTCTACAAGATCGTGCGCGGGGAC
CAGCCGGCGGCCAGCGGCGACAGCGACGACGAGCCGCCCTCTGCCCCGCTCAAGCGGCGCGACTTCACC
CCCGCGAGCTGCGGCGCTTCGACGGCGTCCAGGACCCGCGCATACTCATGGCCATCAACGGCAAGGTGTTTCGAT
GTGACCAAAGGCCGCAAATTCTACGGGCCGAGGGGCCGTATGGGGTCTTTGCTGGAAGAGATGCATCCAGGGGC
CTTGCCACATTTTGCCTGGATAAGGAAGCACTGAAGGATGAGTACGATGACCTTTCTGACCTCACTGCTGCCAG
CAGGAGACTCTGAGTGACTGGGAGTCTCAGTTCACCTTTCAAGTATCATCACGTGGGCAAACCTGCTGAAGGAGGGG
GAGGAGCCCACTGTGTACTCAGATGAGGAAGAACCAAAAGATGAGAGTGCCCGGAAAAATGATTAAGCATTGAG
TGGAAGTATATCTATTTTGTATTTTGCAAAATCATTTGTAACAGTCCACTCTGTCTTTAAACATAGTGATTAC
AATATTTAGAAAGTTTGTAGCACTTGCTATAAGTTTTTAATTAACATCACTAGTGACACTAATAAAATTAACCT
CTTAGAATGCATGATGTGTTTGTGTGTACAAAATCCAGAAAGTGAAGTGCAGTGCTGTAATACACATGTTAATAC
TGTTTTCTTCTATCTGTAGTGTAGTACAGGATGAATTTAAATGTGTTTTCTCTGAGAGACAAGGAAGACTTGGGT
ATTTCCCAAACAGGTAAAAATCTTAAATGTGCACCAAGAGCAAAGGATCAACTTTTAGTCATGATGTTCTGTAA
AGACAACAAATCCCTTTTTTTTTCTCAATTGACTTAACTGCATGATTTCTGTTTTATCTACCTCTAAAGCAAATC
TGCAGTGTTCCAAAGACTTTGGTATGGATTAAGCGCTGTCCAGTAACAAAATGAAATCTCAAACAGAGCTCAGC
TGCAAAAAGCATATTTTCTGTGTTTCTGGACTGCACTGTTGTCCTTGCCCTCACATAGACACTCAGACACCCCTC
ACAAACACAGTAGTCTATAGTTAGGATTAAATAGGATCTGAACATTCAAAGAAAGCTTTGGAAAAAAGAGCT
GGCTGGCCTAAAAACCTAAATATATGATGAAGATTGTAGGACTGTCTTCCAAGCCCCATGTTTCATGGTGGGGCA
ATGTTTATTTGGTTATTTTACTCAATTGGTTACTCTCATTGAAATGAGGGAGGGACATACAGAATAGGAACAGG
TGTTTGCTCTCCTAAGAGCCTTCATGCACACCCCTGAACCACGAGGAAACAGTACAGTCGCTAGTCAAGTGGTTT
TTAAAGTAAAGTATATTCATAAGGTAAACAGTTATTCTGTTGTTATAAACTATAACCCACTGCAAAAGTAGTAGTC
AAGTGTCTAGGTCTTTGATATTGCTCTTTTGGTTAACTAAGCTTAAGTAGACTATACAGTTGTATGAATTTGT
AAAAGTATATGAACACCTAGTGAGATTTCAAACCTGTAATTGTGGTTAAATAGTCATTGTATTTTCTGTGAACT
GTGTTTTATGATTTTACCTCAAATCAGAAAACAAATGATGTGCTTTGGTCAGTTAATAAAATGGTTTTACCCA
CTAAAAA

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FIGURE 6273

MAAEDVVATGADPSDLESGGLLHEIFTSPNLNLLLGLCIFLLYKIVRGDQPAASGDSDDDEPPPLPRLKRRDFTP
AELRRFDGVQDPRILMAINGKVFVDVTKGRKFYGEOPYGVFAGRDASRGLATFCLDKALKDEYDDLSDLTAAQQ
ETLSDWESQFTFKYHHVGKLLKEGEEPTVYSDEEPPKDESARKND

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FIGURE 6274

CCGCAGCGCCGGAGTCAAAGCCGGTTCCCGGCCAGTCCCGTCTGCAGCAGTCTGCCTCCTCTTTCAACATGAC
AGATGCCGCTGTGTCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGCAGCCATCTCCAAGACGGCGGTAGC
GCCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTGCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAA
AGGCATTATAGACTGCGTGGTCCGTATTCCCAAGGAGCAGGGAGTTCTGTCTTCTGGCGCGGTAACCTGGCCAA
TGTCATCAGATACTTCCCCACCCAGGCTCTTAACCTTCGCCTTCAAAGATAAATAACAAGCAGATCTTCTGGGTGG
TGTGGACAAGAGAACCCAGTTTTGGCTCTACTTTGCAGGGAATCTGGCATCGGGTGGTGCCGCAGGGGCCACATC
CCTGTGTTTTGTGTACCTCTTGATTTTGCCCGTACCCGTCTAGCAGCTGATGTGGGTAAAGCTGGAGCTGAAAG
GGAATCCGAGGCCTCGGTGACTGCCTGGTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTT
TAACGTGTCTGTGCAGGGTATTATCATCTACCGAGCCGCCTACTTCGGTATCTATGACACTGCAAAGGGAATGCT
TCCGGATCCCAAGAACACTCACATCGTCATCAGCTGGATGATCGCACAGACTGTCACTGCTGTTGCCGGGTTGAC
TTCCTATCCATTTGACACTGTTCGCCGCCGCATGATGATGCAGTCAGGGCGCAAAGGAAGTACATCATGTACAC
AGGCACGCTTGACTGCTGGCGGAAGATTGCTCGTGATGAAGGAGGCAAAGCTTTTTCAAGGGTGCATGGTCCAA
TGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGCTTTGTATGATGAAATCAAGAAGTACACATAAGTTATTTC
CTAGGATTTTTCCCCCTGTGAACAGGCATGTTGTATTATATAACATATCTTGAGCATTCTTGACAGACTCCTGGC
TGTCAGTTTCTCAGTGGCAACTATTTACTGGTTGAAAATGGGAAGCAATAATATTCATCTGACCAGTTTCTCTT
AAAGCCATTTCCATGATGATGATGATGGGACTCAATTGTATTTTTTATTTTCAGTCACTCCTGATAAATAACAAAT
TTGGAGAAATAAAAAATATCTAAAAAT

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FIGURE 6275

GC GACCCTCTTCTTG GCGTAGAGTTTT CAGATTGCTCTTG GGAATCATGCCGAAAGTAGTGTCTCGGTCAGTAGT
CTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCCTCCATGTTTACTACTGTTTGTGCGG
CCAGATGGTCCTAGTGCTGGACTGCCAGTTAGAGAAATTGCCCATGAGGCCCGGGACCGGTCCCGTGTGATTGA
TGCTGCCAAACATGCCCATAGTTTTGTAAACACAGAAGATGAGGAGACTATGTATCTGCGGAGACCTGAAGGCAT
TGAACGACAGTACAGGAAGAAATGTGCAAAGTGTGGACTGCCGCTCTTCTACCAATCCCAGCCAAAGAATGCTCC
TGTTACCTTCATTGTGGATGGAGCAGTAGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGAA
ACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCTGTCAACCGTGT
TACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAGTTGCTGACTCATATGCACAGAATGCCAAAGTGAT
TGAAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCGACTGCAAGAGCTGGCTGAATTGGAAGCCAAGAAAGC
GAAATGAAGGGGACCTTGATTGACAACCAGTTCAAATAACCAGGCCCTTTTTCTAAGCCCTAGACTAGAGGCAAG
CATTTAGATCAGGAGGCAAAGTAATTTCTTGATTACATAGACGGATTCTATTATGCCCTAGCAGAAGGCTTTA
CGTTGTTTCCCATTTGATTCTCTACATTCACTGAGGTCTTTAACTGAGTCCATTAACTTGCTTTCTTTTTTTTT
TTTTTTTTTTTGAGATAAAGTCTTGCTCTTTTCGCCCAGGATGGAGTGCAAGTGGTCCGATCTCGGCTCACTGCAAC
CTCCGCCCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGTGCCACCAC
GCCTGGGCAACATGGTGAAACCCTGTCTCTACTAAAATACAAAAGAAATTAGCCAGGTGTGGCGGCATACCCCTG
TAGTCACGGCTACTTGGGAGGCAGAGGCAGGAGAATTGCTTGAACCTCGGGAGGTGGAGGTTGCAGTGAGCTGAGA
TTGCACCACTGTACTCCAGCACTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCTACAAAAAAAAAAAAAAAA
AAAGTAACCAAGGGAGGGAGCTACCCTCTAGTCGGGCAGCTGATACTGCTTCCTTGCAATGGATACATGGGAGGG
AGACGTTATAGATTAAAGAAATGATAGCAAGATAAAACAAATGATTGTTGGGTATCTTTTACTTTTACATTTGTTA
TTTGCAGAGGAGTGTTGTATATATAGATGTTATTTTATGTCACACTGCTTCAATGATACCTATATCCATGTGTTT
GTATCCATGTTTTTATCCATTCAACTGTATTTAAAGGTGTTGGGACAGG

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FIGURE 6276

GAAGAACTGGAAGTGGGCTGGCCATAGGGGGAAGCGGCGGTTAAATCCGCCCCCTCTCCATACCCTACTTTCAA
GGGGTGGGCGGTAGAGGGGAGGTTGGGGTTGGAGCAGCGGCGAGGGGGCCCCCTCCCTTGACCTCCCCCACC
ACTTGGTCGCGCCCGAAGTGTAACACTTTCTCTTTGTCTGGAGGAGCTCCTCTGTTTCTGTGTCAGTAGCTCCCGT
TGCGGGCGGCACCCGTGGCAGCCCTGGCGGACGCAGGAGCGATGGCAGCGACCGATATAGCTCGCCAGGTGGGTGA
AGGTTGCCGAAGTGTCCCCCTGGCTGGACATGTGGGGTTTGACAGCTTGCTTGACCAGCTGGTGAATAAGTCCGT
CAGCCAGGGCTTCTGCTTCAACATCCTGTGCGTGGGAGAGACAGGTTTGGGCAAGTCCACCCTCATGGACACCCT
GTTCAACACCAAATTGGAAGGGGAGCCAGCCACCCACACACAGCCGGGTGTCCAGCTCCAGTCTAATACCTATGA
CCTCCAAGAGAGCAACGTGAGGCTAAAGCTCACGATCGTTAGCACAGTTGGCTTTGGGGACCAGATCAACAAAGA
GGACAGCTACAAGCCTATCGTGGAATTCATCGATGCACAATTCGAGGCCTACCTGCAGGAAGAGCTAAAGATCCG
AAGAGTGCTACACACCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTCATTGCCCCCAGGGGTCAATCCCT
GAAGTCTCTGGACCTAGTGACTATGAAGAAGCTGGACAGTAAGGTGAACATCATCCCCATCATTGCCAAAGCAGA
TGCCATTTGGAAGAGTGAGCTAACAAGTTCAAAATCAAAATCACCAGCGAGCTTGTGAGCAACGGAGTCCAGAT
CTATCAGTTTCTACAGATGATGAGTCGGTGGCAGAGATCAATGGAACCATGAACGCCCACCTGCCGTTTGCTGT
CATTGGCAGCACAGAAGAACTGAAGATAGGCAACAAGATGATGAGGGCGCGGCAGTATCCTTGGGGCACTGTGCA
GGTTGAAAACGAGGCCCCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTGCGGTCAACATGGAGGATCTGCG
GGAGCAGACCCACACCCGGCCTATGAGCTGTATCGCCGTGTAAGCTGGAGGAGATGGGCTTCAAGGACACCGA
CCCTGACAGCAAACCTTCAGTTTACAGGAGACATATGAGGCCAAAAGGAACGAGTTCTAGGGGAACCTCCAGAA
AAAAGAGAGGAGATGAGACAGATGTTCTGTCAGCGAGTCAAAGAGAAAGAACGCGGAGCTCAAAGAGGCAGAGAA
AGAGCTGCACGAGAAGTTTGACCGTCTGAAGAACTGCACCAGGACGAGAAGAAGAACTGGAGGATAAGAAGAA
ATCCCTGGATGATGAAGTGAATGCTTTCAAGCAAAGAAAGACGGCGGCTGAGCTGCTCCAGTCCCAGGGCTCCCA
GGCTGGAGGCTCACAGACTCTGAAGAGAGACAAAGAGAAGAAAAATAATCCATGGCTGTGTACTGAATAGTATTC
CCCCTACAGCTGGACTGGACTCCATTTAGCCTTTTAAGCCGAGGTTCTATTTTAACTGACAGCTTTCCTTTGG
GGTGCCAGGCAGCGAGGCCCCCACCCTATCCTGCCATGTACTTCAAGCTCACTTCTTCTTTTGTAGTTCCGCA
ACTTGCTCCTGCCTCCCAGCCCCACTGGCACTGACCATGACCACCTACTTCTATTTTTTTTTTAGAGTTTCTTTT
TTTGATCACTTACTTTCAAAGCACACAGTCAAACAAGGTTATGCCAAATTTCCAGGCCTTTTTGAAGTATTGAGA
AGGGGAAGGGGATTTCTCACTTCAATTATAGATCATAATAGGAAGCAAAAAGAAAAAATGAAAAGCAAACATAT
GCACGCACTTTTCTTGTTGACAAAGCAAGAATGTAGGTTTGTGTGTAGGTTTGGTGCTCTATTGATTGGTGAGT
GACCAGAGCAAGTATGAAGGTGATGCTGCCAAAGCACAAGCCAGTTTCTTGGGAAAATTCAAGTTACAGTGGAGT
ATTTTTTTGAAGACCATATGCTTGGAGGTAGAAACAAACCAACGACCAAAAAAAAAAAAAAAAAAATCTGCTC
AGATACTCAGCCAGTAGCTCAGAGAGATGCTGAGTTAGGCCTGTCAGGTCTCCTTGGGAAAGGCTTCATATTTGC
AACTTTGATGATTCTATGTCCAGCTTCAGAGCTGCTTTCCAGAAATTCACGCTTAAACAACCAACCGGTAACCA
CCACTTCCCCACACCGCCGCTGGTAATTATTTGCATTACAAACCGGAGGCGCCCTCATTGTCATTGTGTACAG
ATTAAGTAAAGGCTTGAAGCTCTGAATAATTCAAAAGTATTAGACCCACACAGCCTTGGAGAGACCTTCA
GAACTAAGGAGGAGTTTTATATTAAGGGAGACATTTTAGTCAGTAAGACGATATAACCTACTTACTCCGTAAGG
GGAAATGAAGGCCCGGAGAAGGGAAGGGACTTGACCGAGGTCCCACTTCTGTTTCGAGGCAGAAGCCAGACTAAT
TTTCATGCCTCCTGACTCCCAATCAGTTTCACAAAGGGATTCAATCTGTTTATATACGTTACATTCTCTGG

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FIGURE 6277

MAATDIARQVGEGRITVPLAGHVGFDSPDQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFECEPATHT
QPGVQLQSNTRYDLQESNVRLKLTIVSTVGFGDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVLHTYHDSRIHV
CLYFIAPTGHSLKSLDLVTMKKLDKVNIIPIIAKADAIKSELTKFKIKITSELVSNGVQIYQFPTDDESVAEI
NGTMNAHLPPFAVIGSTEELKIGNKMMRARQYPWGTQVQVENEACDFVKLREMLIRVNMEDLREQTHTRHYELYRR
CKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRVKEKEAELKEAEKELHEKFDRLKKLH
QDEKKKLEDKKKSLDDEVNAFKQRKTAELLSQSQSQAGGSQTLKRDKEKKNNPWLCTE

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FIGURE 6278

CTTCCGCCAGCTTCCCTCCTCTTCCTTTCTCCGCCATCGTGGTGTGTTCTTGACTCCGCTGCTCGCCATGTCTTC
TCACAAGACTTTCAGGATTAAGCGATTCTGGCCAAGAAACAAAAGCAAATCGTCCCATTCCCCAGTGGATTTCG
GATGAAACTGGAAATAAAATCAGGTACAAC TCCAAAAGGAGACATTGGAGAAGAACCAAGCTGGGTCTATTAAGG
AATTGCACATGAGATGGCACACATATTTATGCTGTCTGAAGGTCACGATCATGTTACCATATCAAGCTGAAAATG
TCACCACTATCTGGAGATTCGACGTGTTTTCTCTCTGAATCTGTTATGAACACGTTGGTTGGCTGGATTTCAGT
AATAAATATGTAAGGCCTTTCTTTT

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FIGURE 6279

MSSHKTFRIKRFLAKKQKQNRPIQWIRMTGNKIRYNSKRRHWRRTKLGL

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FIGURE 6280

AGATTCCGTCGCTTCTTCCGGAGCCGTACGTGGCACCGCCCCGCTCGCGGGCGGCCGCGGGGCTTGCTGGGAAGA
GAGGCGAAGCCAGGTCACCTTTCAAGGACCCAGAAGTAGGGTTTTGGCCTAGGTAACGGGGCAGAGATGTGGTTC
GAGATTCTCCCGGACTCTCCGTCATGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGCGTACATCCACAGG
TTCACCTAACGGGGGCAAGGAAAAAAGGGTTGCTCATTITGGGTATCACTGGAGTCTGATGGAAAGAGATAGGCCG
ATCTCTGGAGTTGATCGTTACTATGTGTCAAAGGGTTTGGAGAACATTGATTAAGGAAGCATTTCCTGATTGAT
GAAAAAATAACTCAGTTATGGCCATCTACCCCTGCTAGAAGGTTACAGTGTATTATGTAGCATGCAATGTGTTA
TGTAGTGCTTAATAAAAAATAAAATG

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FIGURE 6281

ATGGACGTAGACACACGAGCCTATTTACCTCCGCTACCATAATCATCGCTATTCCCACCAGCGTCAAACGACT
CGCTACACTCTACGGAAGCAATATGAAGTGATCTGCTGCAGTACTCTGAGCCCTAGGGTTCATTTTCTCTTCAC
TGTGGCCTAACCGGCATTGTACTAGCAAACATCATTAGACATCGTACTACACGACACATACTACGTCGTAGCT
CACTTCCATTACGTCCTATCAATAGGAGCTGTATTCGCCATCACAGGAGCCAATATTGTACCTATCACCATACTA
GTCTTTGCTGCCTGCAAGGCAGCAGTAGGCCTAGCCCTACTAGTCTCAATCTCTAACACATATGGCCTAGACTAC
GTACATAACCTAAGCCTACTCCAATGCTAA

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FIGURE 6294

MEEMKKTAIRLPKGKQKPIKTEWNSRCVLFITYFQGDISSVVDEHFSRALSNIKSPQELTPSSQSEGVMKNDSDM
SPNQWRYSSPWTKPQPEVPVTNRAANCNLHVFGPMAVNQFSPSLARRASVRGELWHFSSLAGTSSLEPGYSHPF
PARHLVPEPQPDGKREPLLSLLQODRCLARPQESAARENGNPGQIAGSTGLLENLPPGSVHYKKLYVSRGSASTS
LPNETLSELETPGKYSLTPPNHWGHPHRYLQHL

FIGURE 6295A

CCTGTTTGGAGTGTACCGTCCTCAGTAATGAATCCAGAAGAACAAATCGTGACATGGCTTATATCTTTGGGAGTT
T TAGAGTCCCCCTAAAAAGACCATCTGTGATCCGGAGGAGTTTTTAAAGTCCTCGCTGAAAAATGGGGTAGTTCTG
TGCAAACTGATCAACAGACTCATGCCTGGCTCTGTGGAAGTTTTGTCTGGATCCCCAACTGAAGCTGACTGC
ATCAACAACATCAATGACTTCTCTGAAAGGATGTGCAACCCTCCAAGTGGAATATTTGATCCTGATGACCTTTAT
TCAGGGGTCAATTTCTCCAAGTACTGAGTACTCTTTTAGCTGTCAACAAAGCAACAGAAGATCAGCTATCAGAA
AGACCATGTGGACGTTCTCTCTCTTAGTGCTGCTAATACTTCTCAGACAAACCCACAGGGAGCAGTTTCTAGC
ACAGTTTCAGGGCTGCAAAGGCAGTCAAAGACAGTGGAGATGACGGAAAATGGAAGTCATCAGTTGATAGTAAAA
GCAAGATTCAACTTTAAGCAGACTAATGAGGATGAAGTGTGAGTTGTGAAGGGGGACATCATTTACGTCACACGA
GTTGAAGAAGGAGGCTGGTGGGAAGGCACATTAATGGGAGAACAGGCTGGTTCCCCAGTAATTATGTCCGTGAA
ATTAATCCAGTGAGAGACCTCTCTCCCCAAAAGCCGTCAAAGGATTTGAACTGCTCCACTTACCAAGAATTAT
TATACTGTGGTGTTACAGAACATCCTGGACACTGAAAAGAATATGCTAAAGAACTTCAGTCTCTTCTGTACT
TACTTAAGACCCCTCGAGTCCAATAACAATCTGAGTACTGTGGAGTTACATCTTTACTGGGAACTTCGAGGAA
GTATGCACATTTCAACAGACACTCTGCCAAGCCTTGAAGAATGTTCAAAGTTTCCAGAAAACCAGCACAAAGTA
GGAGGTTGTCTACTGAGTCTCATGCCTCATTTTAAATCTATGTATCTGGCTTACTGTGCAAACCATCCTTCAGCT
GTAAATGTGCTCACTCAGCACAGTGTAGAGTTGGAACAATTCATGGAATAAAGGTGCATCGAGCCAGGTATC
CTCATTTTAAACAACAACTCAGCAAACCATTCATCGGACTGGAGAAATATGTTACTCTCTTGCAAGAGTTAGAA
CGGCATATGGAGGATACTCATCCAGATCATCAGGATATTCTGAAAGCAATCGTAGCATTCAAACCTCTCATGGGG
CAATGTCAAGATCTGAGGAAGAGAAACAGCTGGAGTTACAGATACTGTCCGAACCTATTAGGCATGGGAAGGA
GAAGATATTAAGAACTTGGGAAATGTGATTTTTATGTACAAGTAATGGTGCAGTATGGAGCATGTGAGGAAAAA
GAGGAGCGGTACCTTATGTTATTTTCAAATGTCTGATAATGTTATCTGCAAGTCTCGGATGAGTGGCTTTATC
TATCAGGGAAAAATACCAATAGCAGGAACGGTGGTGACTAGATTAGATGAAATTGAAGGAATGACTGCACATT
GAAATCACTGGTAACACAGTGGAGAGAATTGTGGTCCATTGTAACAACAACAGGACTTCCAGGAATGGTTGGAG
CAGCTGAACAGACTGATCAGAGGACCTGCCTCTTGAGTTTATTATCCAAACCTCATCGTCATCATGTAGTGCT
CATTTCTTCTTTAGCTCTACCGGACAGCCCCGAGGACCTTGGAGCCTCTCAAATTATAAAACCGTGGAGTTTA
AGTTGTCTACGACCTGCACCTCCACTTAGACCATCAGCAGCACTAGGTTATAAGAGAGGATGTCTTATATCTTA
AAGGAGTCTAGTAAAAGCCCTAAAACGATGAAGAAATTTCTTCATAAAAGGAAGACTGAGAGAAAACCATCGGAG
GAGGAATATGTGATTAGGAAAAAGTACAGCTGCTCTGGAAGAGGATGCTCAAATCCTTAAAGTGATCGAAGCCTAC
TGCACCAGCGCAAATTTTCAACAAGGCCATGGCTCAAGTACTCGAAAAGATTCCATTCCACAAGTCTACTCCCT
GAGGAAGAGAACTCATCATTGAAGAAACCAGAAGCAACGGCCAGACCATCATGGAAGAAAAGAGCCTTGTTGAT
ACTGTTTACGCCCTGAAGGACGAGGTGAGAGAACTGAAGCAGGAAAAATAAAGAATGAAGCAATGCCTGGAAGAA
GAACTGAAATCAAGAAGGGACCTAGAAAAGCTGGTGCGGAGGCTTTGAAGCAAACAGATGAGTGTATTGAGGC
GAGTCCAGTAGCAAGACCTCAATTCTTCCAATAACCATCACTGTGCCACTGGTGGAGTGTGCCTTCAGGGCATCT
TGAAATGTCCCGCTGAATGATTGACTCAGTTTGCTCACTTCTTTGGCTTTTGTGTTGTGTTGAGTCTCTCTCT
CTCTCTCCCTCTCTCTTCTCTTCTCTCTCCCGCTGTGTGCATATGTGTGTGCGTGCACGTGCGCGCTTGGGCATT
TGCTGTTGTTTGGTTATTGGTTGGTTGTTCAATTTTTTTTTTCAACAGGTGAAAAGCAGGAAGTGGTGGTAGAGA
TGGCCTCAGAGTCTTTTCATTAGTAAGAAAGAGAAAGGGAATGCAGGCCAGTTACTTAAAAGGTCTTCAGATT
GCCTTCAGTTCACAGTGCCTCTGCAACAGCCATTGCCCTCAGGTACATTCTTTGGGCTGGCTGCCCTTGCAAAG
CAGCTGGCCAAGGCTTATTAATGTGAACCAACTTTTCCCAGGGCTTTTCTGTACTCTGCAAGCCTCTTAGTAC
TTAATTTACCGAAGGCAAAATCTCCAGACTATGGCTTGAGTAGGATGAAAGACAACACATCTGCCCAATGATCC
AGCTGCCCTTCTTAGACCATCAGTGCCTCCCTCAATCACAGGTTTTAAATTAAGTGCCTTATGTTGTCTATA
AGACCAAGAAAAGTGTAGTACCCTTATTCCTTTTGTGTCATGTAAATGTAAGTCAAGGGGGCAGAAAGCTCTGGT
CACCCACACCAACACCAAAATCCATCAGCAAATCTACTGGACAATCTCCCTTTTAGTAGCAGAGTTGACCGCCT
TTTCCCATTCATGATAGGTTTCTTTCCCTCATTCTGCCTAGTGTGTAAGTTTTCTATTTCCCAGTACTTTTAG
CCAACCTTACCAAGTGGTGTGTAACTAGTATGTATGTGCTTTGCTTACTTTTTAAAAAATGTAGTTAGACTGT
GAGGAGTTACTTTATGTACGTTGCATATCAAACCTGTGATGTTTTATCCTTCAAACAATCTGCATTAAGAAGAT
ATTGTGCCCTACTAGACAGCTTTTATTCACTTTTATTACTCTCTCATATATGCTGTGAGAAGTTGTAATATTAAT
GGCCTCTTTGGGTGGGACTCTAAGCAGTATTGCGAGAAATATGCTTCTGGTCCAACCTGTACATCCAGAACAAA
GGGCCCCCTAGTAGCTGTGTGCTGGATTATTCAGGACTGATTAACCTCAAGTTGCTCAATTGAATCACATCATCCA

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FIGURE 6295B

CTTTATCCCAGAACTAGAACTGTGAGAAACCAGGTTTGAAGACAGTCACAGAACAGCACACATCCAAATTCAG
CGCCATTGAAAGTTGGCCTAAGGCTCAGTGCCACTCACCCCTCCCTCCCCAAAAGACAAGAGAAATTTGGCCAGA
TGGGGAAGGTCAGTGGAAATTGAGGCCAAAGGGCTGATCAGAATTGCCTTTATAATATATTTGATGGATGCCTAT
AAATGTGGGTTTTGCAAATATTGTTTAAAAACCAAACCTGAAGCAGGCATGGTGGCCACACCTGTGGTCCCAG
CTACTCAGGAGGCTGAGGTGGGAGGATCATTGAGCCCAGGAGGTCAAGGCTGCAGTGAGCTGTGATGACACCAC
TGCACTCCAACCTAGGTAACAGAGAGACACCTCTGTCTCTGAAAAACAAAACCTGAAGTTTGAAACCCCCAGCT
TGCTGAGGAGCCCTTTTTATTTTGGTACTGAGAGTCTCAAGGTCCCATAGCTACATGGTACAGGGCTGTTGTCT
GCTTGCTGCACAGCAGAAATTACACCATCCACAGGAAATGGACTATTTTTGCAGTCCAACATCAGCCAACCACAC
ACAGCCGTGTTTGGAAGCTGAAGAGTAAAGAAATTTCTAGGAATGGCTGTTGTCTGTTTTTTAGCACAGCCATT
TAGATATAACATCCTTCACTTAAAAATTAAAAACATCAGTACTACCACCACCACCAACAACATCAACACAGATCT
TCACATCTGCCCATTTCTGTGGTTAGTCAATGGCTTGCAATAAATGTGCAAACATGCATCTATAGGAAACATTTTTG
TGATTACGGAATACTTTAGTTGATTGCTGAAAATATTGAAAGGTCTTCATTTTACAGTGATGAGTACATATGCAT
GTTTCGGGGACTTGCCCTTCTGATGAGGGGCCCTCGGTACTCTGGATAACGAAGCTTGTGCAGAGTGGTAACCA
TGCTTACACACTAACTATAATATAAAGGAAATGAAGCCATGTTAATCTGAGAGCAGTGTCGCCATAGTTGTGTT
GTTTACAATACTCTATAAATGGGTTCCCTGTTGCCCTGTAATTAACCTGCTGCCCGTAGAGGCCTTCAGTTCCTT
TTCTGTCTTCCCTTCTTAACACAAGCTCAAATTTCTAACTTGTTTTATTTGAAGACTTTTAAATGGACA
TTTTCAATACATAAAAAATAACAGTGCTTTATAAAA

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FIGURE 6296

MNP EEQIVTWLISLG VLESPKKTICDPEEFLKSSSLKNGVVLCKLINRLMPGSVEKFCLDPQTEADCINNINDFLK
GCATLQVEIFD PDDL YSGVNF SKVLSTLLAVNKATEDQLSERPCGRSSSLSAANTSQTNPQGAVSSTVSGLQRQS
KT VEMTENGSHQLIVKARFNFKQTNEDELSVCKGDIYVTRVEEGGWEGT LNGRTGWFP SNYVREIKSSERPLS
PKAVKGFETAPLTKNYYTVVLQNILDTEKEYAKELQSLLVTYLRPLQSNNNLSTVEVTSLLGNFEEVCTFQQTLC
QALEECSKFPENQHKVGGCLLSLMPHF KSMYLAYCANHPSAVNVLTQHSDELEQFMENQGASSPGILILTINLSK
PFMRLEKYVTLLQELERHMEDTHPDH QDILKAIVAFK TLMGQCQDLRKRKQLELQILSEPIQAWEGEDIKNLGNV
IFMSQVMVQYGACEEKEERYLMLFSNVLIMLSASPRMSGFIYQGKIP IAGTVVTRLDEIEGNDCTFEITGNTVER
IVVHCNNNQDFQEWLEQLNRLIRGPASCSSLSKTSSSSCSAHSSFSSTGQPRGPLEPPQI IKPWSLSCLRPAPPL
RPSAALGYKERMSYILKESSKSPKTMKKFLHKKRTERKPSEEEYVIRKSTAAL EEDAQILKVIEWAYCTSANFQQG
HGSSTRKDSIPQVLLPEEEKLII EETRSNGQTIMEEKSIVDTVYALKDEVRELKQENKRMKQCLEEELKSRRDLE
KLVRRLKQTDECIRGESSSKTSILP

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FIGURE 6297

AAAAAAAAACATGGTTGAAGCAGATCGCCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAA
GCTCTTGAAGCAGTATTTGGCAAATATGGACGAATAGTGAAGTACTCTTGATGAAAGACCGTGAAACCAACAAA
TCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAG
TCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAACCATCATTGAAAGTGGTAGACGTGGACCGCCT
CCACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACAGGGGACCT
CCCTCACGGGGAGGACACATGGATGACGGTGGATATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTC
CCAGTAAAAAGAGGACCACCACCAAGAAGTGGGGGTCTCTCCTAAGAGATCTGCACCTTCAGGACCAGTTTCGC
AGTAGCAGTGGGAATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAA
CCGCTGCCCTCTCGTAGAGATGTTTATTTGTCCCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGC
AGAGATTACCCAAGTTCTCGTGATACTAGAGATTATGCACCACCACCACGAGATTATACTTACCGTGATTATGGT
CATTCCAGTTCACGTGATGACTATCCATCAAGAGGATATAGCGATAGAGATGGATATGGTCGTGATCGTGACTAT
TCAGATCATCCAAGTGGAGGTTCTTACAGAGATTCATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTACA
CGAGGGCCCCCGCCATCTTATGGTGGGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGGGA
AGTCGAGACAGTTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTTGGCAGACAAGAAAGA
GGGCTTCCCCCTTCTATGGAAGGGGGTACCCTCCTCCACGTGATTCTTACAGCAGTTCAAGCCGCGGAGCACCA
AGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGAAACAAACAAAACCTT
TGGACCAAAATCCCAGTTCAAAGAAACAAAAGTGGAAACTATTCTATCATACTACCCAAGGACTACTAAAAGG
AAAAATTGTGTTACTTTTTTTAAATTCCCTGTTAAGTTCCTCCATAATTTTTATGTTCTTGTGAGGAAAAAAG
TAAACATGTTTAAATTTTATTTGACTTTTCGATTGCTTTTCAACAAGCAAATGTTAAATGTGTTAAGACTTGTAC
TAGTGTGTAACTTTCCAAGTAAAAGTATCCCCTAAAGGCCACTTCCTATCTGATTTTTCCAGCAAATGAGGCA
GGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAA
GCTAGCTATTAGAGGGTGGTTGGGGTATGCTACTCATAAGATTTTCAAGGTGTCTTCCAAGTAAATCTCAATGTT
CTCAGTACGAAAAACCTGAAATCACATGCCTATGTAAGGAAAGTGCTATTCACCCAGTAAACCCAAAAAAGCAAA
TGGATAATGCTGGCCATTTTGCCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCTTCCCCCA
ATAAGACCATTTAAGTGTGTGTTAAACAACCTACAGAATACTAAATAAAAAGTTTGGCCAAAAC

6816/6881
FIGURE 6298

MVEADRPGLFIFGGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFVTFESPADAKDAARDMNGKSLD
GKAIVKQATKPSFESGRRGPPPPPSRGPPRGLRGGRGGSGGTRGPPSRGGHMDDGGYSMNFNMSSSRGFLPVK
RGPPPSRGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPDRDYTYRDYGHSSSRDDYPSRGYSDDYGRDRDYSDHPSGGSYRDSYESYGNRSAPPTRGP
PPSYGGSSRYDDYSSSRDGYGGSRDYSSSRDLYSSGRDRVGRQERGLPPSMERGYPPPRDSYSSSSRGAPRGG
GRGGSRSRGGGGRSRY

6817/6881
FIGURE 6299

CTCGTGATTACTCAGTTTGGGAACAGTGACAATAACTTTACAAATACATATACAGATGTATCTTCTGTCCACTCA
GGAAACACAGCAAGGGTCCCATTAACTACAAGTCAGAGGTGATTCCAGGGCACTTTGGATTCTCTCGTGCCCCAG
GATCAAGCAGTACTTACCGCTTCCACGGTACTTAGCGTTCTGCCAATAAAAGAAGCCCAACTCCGGCCGTGGC
TGTCGCTGCCAGAGGGAGGAGGGCCATGATCCAAAGGAACCAGAGCAGTTGAGAAAAGTGTATTGGTGGTCTG
AGCTTTGAAACTACAGAAGATAGTTTAAAAGAACATTTTGAGAAATGGGACACACTCACAGATTGTGTGGTAATG
AGAGACCGCCAAACAAAACGTTCCAGGGGCTTAGGTTTTGTGACTTATTCTTGTGTTACAGAGGTAGATGCAGCA
ATGTGTGCTCGACCACACAAGGTTGATGGGCATGTAGTGGAACCAAAAAGAGCTGTTTCTAGAGAGGATTCTGTA
AAGCCCGGTGCCCATCTAACAGTGAAGAAAATTTTGTGGTGGTATTAAAGAAGATACAGAAGAATATAATTTG
AGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGGAAAAAGAGA
GGATTTGCTTTTGTAACTTTGTATGGTCACGATACAGTTGATAAAATTGTTGTTTCAGAAATACCACACTATTAAT
AGGCATAATTGTGAAGCAAAAAGGCCGTTTCTAAACAAGAAATGCAGTCTGCTGGATCATAGAGAGGTCGTGGAG
GTGGGTCTGGCAATTTTATGGGTTGCGGAGGAAGCTTTGGAGATGGTGGAGCAATCAAATTATGGACCCATGAAA
GGGGGCAGTTTGGTGGGAAGACACTCGGGCAGTCCCTATGGTGGTGGTTATGGATCTGGTGGTGAAGTGGTGA
TATGGTAGCAGAAGGTTCTAA

6818/6881
FIGURE 6300

TGGGAATCTGACGGATCGGAGGCATTTGTGAGGAGGCGCGAATCAAGTTAGCGGGGGGAAGAGTCTTAGACCTGG
CCAGTCCTCAGGGTGAGGGCCCTGAGGAAGAACTGAGGGACCTCCCACCATAGAGAGAAGAAACCCCGCCTGTA
CTGCGCTGCCGTGAGACTGGTGCTCCAGGAACCAGGTGGTGACGAACTGGGTGTGAGGCACACAGCCTAAAGTCA
GCACAGCAGAGGAGGCCCCAGGCAGTGCCAGGAGTCAAGGCCTGTTGGATCTCATCATCCATATCCCTGTTGATAC
GTTTACCTGCTGCTCCTGAAGAAGTCGTCATGCCTCCCGTTCCAGGCGTTCCATTCCGCAACGTTGACAACGACT
CCCCGACCTCAGTTGAGTTAGAAGACTGGGTAGATGCACAGCATCCACAGATGAGGAAGAGGAGGAAGCCTCCT
CCGCCTCTTCCACTTTGTACTTAGTATTTTCCCCCTCTTCTTTCTCCACATCCTCTTCTCTGATTCTTGGTGGTC
CTGAGGAGGAGGAGGTGCCCTCTGGTGTGATACAAATCTTACCAGAGCATTCCAGTAGTCCTCCACAGGGTC
CTCCACAGGGTCCTTCCCAGAGTCCTCTGAGCTCCTGCTGCTCCTCTTTTTTCATGGAGCTCATTAGTGAGGAGT
CCAGCAGCCAGAAAGGGGAGGATACAGGCACCTGTCAGGGCCTGCCAGACAGTGAGTCCTCTTTACATATACAC
TAGATGAAAAGGTGGCCGAGTTAGTGGAGTTCCTGCTCCTCAAATACGAAGCAGAGGAGCCTGTAACAGAGGCAG
AGATGCTGATGATTGTCATCAAGTACAAAGATTACTTTCTGTGATACTCAAGAGAGCCCGTGAGTTCATGGAGC
TTCTTTTTGGCCTTGCCCTGATAGAAGTGGGCCCTGACCACCTCTGTGTGTTTGCAAACACAGTAGGCCTCACCG
ATGAGGGTAGTGATGATGAGGGCATGCCCGAGAACAGCCTCCTGATTATTATTCTGAGTGTGATCTTCATAAAGG
GCAACTGTGCCTCTGAGGAGGTCACTCTGGGAAGTCTGAATGCAGTAGGGGTATATGCTGGGAGGGAGCACTTCG
TCTATGGGGAGCCTAGGGAGCTCCTCACTAAAGTTTGGGTGCAGGGACATTACCTGGAGTATCGGGAGGTGCCCC
ACAGTTCTCCTCCATATTATGAATTCCTGTGGGTCCAAGAGCCCATTCAGAAAGCATCAAGAAGAAAGTACTAG
AGTTTTTTAGCCAAGCTGAACAACACTGTTCCCTAGTTCCTTTCCATCCTGGTACAAGGATGCTTTGAAAGATGTGG
AAGAGAGAGTCCAGGCCACAATTGATACCGCAGATGATGCCACTGTCATGGCCAGTGAAAGCCTCAGTGTCATGT
CCAGCAACGTCTCCTTTTCTGAGTGAAGTCTAGGATAGTTTCTTCCCCTTGTGTTTGAACAGGGCAGTTTAGGTT
CTAGGTAGTGGAGGGCCAGGTGGGGCTCGAGGAACGTAGTGTTCTTTGCATTTCTGTCCCATATGGGTGATGTAG
AGATTTACCTGTTTTTCAGTATTTTCTAAATGCTTTTCCTTTGAATAGCAGGTAGTTAGCTTCAGAGTGTTAATT
TATGAATATTAGTCGCACATGTATTGCTCTTTATCTGGTTTAAAGAGTAACAGTTTGATATTTTGTTAAAAAATG
GAAATACCTTCTCCCTTATTTTGTGATCTGTAACAGGGTAGTGTGGTATTGTAATAGGCATTTTTTTTTTTTTT
ACAATGTGCAATAAATCAGCAGTTAAATAGTGGAAACAAAATTGAAGGGTGGTCAGTAGTTTCATTTCCCTTGTCCT
GCTTATTCTTTTGTCTTGAAAATTATATATACCTGGCTTTGCTTAGCTTGTTGAAGAAAGTAGCAGAAATTAA
TCTTAATAAAAGAAAAAAAAAAAAAAAAAAGG

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FIGURE 6301

MPPVPGVFFRNVDNDSPTSVELEDWVDAQHPTDEEEEEASSASTLYLVFSPSSFSTSSSLILGGPEEEEEVPSGV
IPNLTESIPSSPPQGPPQGSPQSPLSSCCSSFSSWSSFSEESSSQKGEDTGTCQGLPDSESSFTYTLDEKVAELVE
FLLKYEAEPEVTEAEMLMIVIKYKDYFPVILKRAREFMELLFGLALIEVGPDHFCVVFANTVGLTDEGSDDEGMP
ENSLIIILSVIFIKGNCASEEVIWEVLNAVGVYAGREHFVYGEPRELLTKVWVQGHYLEYREVPHSSPPYYEFL
WGPRAHSESIKKKVFLEFLAKLNNTVPSSFPSWYKDALKDVEERVQATIDTADDATVMASESLSVMSNVSFSE

6820/6881
FIGURE 6302

TTTTCTTTGCTGTTCTTCATCCTCGTTGTTGCTGTCATCATGTTCACTGTGGCTTTTACAATACAGCCTGTAAAT
TCCTTATGACATAGTTTCAGTGCATTTGGCTTTATTGCCTGCTCCACAGTTCTTTACCTTTACTTGGCTTAGAGAA
ACTGTATCTTTGTTGCTTCATATAACCTTTCCCCAACCCCACTAAGCTGGACATAACTTATTAGTGGTCCCTCCCG
TCACITTTATTTGTAGAAATCTCTCTTTCACATGAGCAGGGGTTCTTTCATGTGGTTTAGCTGACAGCAGAACTAG
TGATTCTAGACATTTTGCATGGCCCTCATTAGTGGCTCACAAACATGAGGGAGCATCAGAACTACTTGAGGGGC
TTGTTAAAACCCAGTGCCTTAGAAGTCGGATGCGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAGG
CAGGCGGATCACTTGAGGTTAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATA
CAAAAGTTAGCCGGGTGTGGTGGTGCATGCCTGTAATCCCAGCTTCTTGGGAGGCCAAGGCACAAGAATCGCTTG
AACCAGGAGACGGAGGTTTCAGTGAATGAAGATCGTGCCATTGTATTCCAGCCTCGGCAACACAGCAGGACTGTG
ATTTTCTTTGGAGACTCCTAGATTTTCTGTGGTTTTGAAGTGAATTTGTTGGATGTTGGCAAGTGCCTCTTATGA
GCTGTTTCTTTATCCTGCATTTGCCCCACAAAGACTTATCTGGAGGTGAGCAAGTATGTTTGGTAGTGAGGTCA
CAAAGGCAATCAGCCCTTCTCTCCCACTCCCATTGCCATCTTCTCAGTCCTTCTCCCTTTCTTTCCAAGTAGTT
TACCCACCCCTCTCTTTCTCTCCCTGTCCCTAAAATAATCCACGTGTCTTCTAAAATCTCTCTTTGATCTCTGT
CCTTTGATAACACCGTCAGTGCCTACTACTGGGTCTAGACAGACCTCTGTGAGCAGTCAGAGTCTTCCCTGACT
CCACAATGCCCTTTCTTGGCTGACCAGTATGACTACTGGTCCCCACCTTTCCCTTGCCTATCCCTACCTCCCT
CCTACTAGGTTGTCCCATCCCTCTCTTACCCATTTCATGACCATTTTCACTACCAAGTCCCCCCCCCTCCC
GAAGGAGGCTGAGGTTTTTGTGACTCTCTAGACTCTATTGTGGGATGGAATGAACATTGCTAAAGAATCTTGTGT
TCGCTTTACTTTAAAAAGGTATTTTTTCTTAATTATAAACTGATGTGTCAGTTACGGAAAAATTAGAAATGCA
GCACAAATACATGAATATTTTACCACAAAATTGCCATATAATATCTTGTCTTTTTTGGGGGTGTGAATTTTTGC
ATTGTTCTGGTCATATTCTTTATCATGTAATTTATGTTCTTTTTTACTAAGTATTATGTGTGGTTATTATAGATT
TTCACAAAGATATATTGCTGGTAATATATTTTATTGTGTAGTCTTATAATTACTTAACCTTCTTTCAATTGTTA
GAAATTTAGGCTATTTCCAGATTTTCAGTATTGTAAATAATGCTGTGATGACCAATTTTGTGAATAAAATGTTTT
TATGTATTTAGATTATTTCCCTTAGGATAGTCTCTCAGTGCCAAGTTGTCAAAAACATCTCTATTTTGCTTATCT
TCCTGCTCTCTTGCTGCCITAGGGGGTAGTAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACATAAA
ACAAAAATAAGCAACCTGATGGTAATAGGTGAAAGTGGTAACCTGTTTTAAGTTGAATTCTTGCCGGGCGCGGT
GCTCAGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAGGTGAGGAGTTCAAGACCAGCCT
GGCCAAGATGGTGAATCCCGTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTGGTGGGCGCCTGTAATCC
CAGCTACTTGGGAGGCTGAGGCAGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCC
ACTGCACTCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAAATAAAAAACAACAAAAACAAAAAACTTAAA
ATTCTTTGCTTGTAGTGACCTTGATCATGGTTCTCTTTGTACGATAGTTGGGCATCTGTATTTCCACTTGTGTG
AATTTGCCTTTTAAATTTTGGTTATGGGTTTACCTTTTAAATAATCAAACATATTTATCTTTTCTGTGTGATA
GGTTTTTTTCTGTATCTTTTCTGTAAACACACAGACCCCTCCCAATCTGGACATTGAATAAATATTCATTT
CCTTTGC

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FIGURE 6303

MNIAKESCVRFTLKRYFFPNYKTDVSVTEKLEMOHKYMNILPQNCHIIISCLFWGCEFFALFWSYSLSCNLCSFLL
SIMCGYYRFSQRYIAGNIFYCVVL

6822/6881
FIGURE 6304

GGGAGCTGTATGAAAGCGGAAGAGTTATAGACCGCTAACACCTGTCACTGGCCACTGGTTTCCCGGAGTTAGCGG
CAACGACCTTGCAGCCTGGACACTAGCCAGGCGCTCCCTCTTCTCACAGCGGCCACGTCTCCTTGCTTGGGAGC
CCATCGTCTGGCTCCGGTGGCCTCGCTGGGTCTCGGGGAAGCAGAGGACTGTTTCATTCTGTGGCGAAAAGCCG
GAGTCGGCCCTAGACACCCACGACTCGCAGGGTCCATGGTTCCGGAGGCCGTGAGACCTGCCGGGGCTGACAGGT
GCCAGGGCCCATGCTGCCGGAGCCTGTGTGCTCAGCCTTCTTGGGACGGTAAAGAAGCTAAGTGGAAGAGTGTT
TCCTCCTCTGGCCGTAAAGCAGGTACTCTCTGCAGCACCAGCTGTCCCGCCCTACTCCGGACCGCCCCAAAGAC
TCCATGGGATGGACCTGAGTCAGCCGAATCCCAGCCCCCTTCCCTTGGGCCTGCTGTGGTGCTGGACATCAGTGAC
AGACGGAAGCAGGAGACCATCAAGGCTACGGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCT
TCCGGCAGCCTTATGCTGGCTTGTCTTAAATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCCTGCTGAGCA
GCCAGCGGAACGTACCATCGCCGTCCACATTGCTCACAGGGACTGGGAAGGCGATGCCCTGGCGGGAGCTGCTGG
TGGAGAGACTCGGGATGACTCCTGCTCAGATTGAGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGA
TAGCGGGACTCGTTGACATTGGGGAAACTTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAACTAG
AAAAATCAAGCTGTACTGACCAACCTGAAGCAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGC
CCATACCTAGGAAAGGAGGCAAGGATGTATTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAG
TGTGACAAGTGTGGGCTCCTGAAAGGAATGTTCCAGAGAAACCAGCTAAATCATGACACCTTCAATTTGCCATCA
TGACGCAGACCTGTATACATTAGGTTAAATCTGAATTTCCACTGCTTTGGAGAGTCCCACCCACTAAGCACTGTG
CATGTAAACAGGTTCCCTTTGCTCAGATGAAGGAAGTAGGGGGTGGGGCTTTCCTTGTGTGATGCCTCCTTAGGCA
CACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGCAAAGCTGCCAGTAAATGTCTCAGCATTGCTGCT
AATTTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTGTTGTAGATGACTGGTTAGTGTGTTGAGGCTTTGT
TCTATGTTTTTCCCTGATTTGTTCTGGTCAAAACTCATCAAATGTGTAAGTACTAGCATCCAGGCGACAATACAGAAA
GTCTGGGACCTGGCACTGAATGTTTGCTGGTAGTGACTAGCCGTTAATCAACCGACTCATCCAGGATGAAGAGG
ACGTCAGACTTAGAGCAGCTGTCTGTCTTTTCAAGTTACTCTCACTCTTCTGAAAGTGTCTGTCAGTTTCTGAAG
CATGTGTGTTACCTGCATCACACAGCTACTTCCTATCCTAGCAATACATCCAAAATACAGCTCTAGTAGAGTGAG
GTTAACTTGGAATGTGATCAGTAGTGTTGTTTTATTTTGTAGTAATTTTTTTTTTTTTTTTGGTGATTAGCAAA
GTTTCTAGTTGTTATCCATGAGGATGATGGGCATTTCCCCCAGGTATTGACTGCAGTGG

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FIGURE 6305

MKFGCLSFQPYAGFVLNGIKTVETRWRPLLSSQRNCTIAVHIAHRDWEGDACRELLVERLGMTPAQIQALLRKG
EKFGRGVIAGLVDIGETLQCPEDLTPDEVVELENQAALTNLKQKYLTVISNPRWLLEPIPRKGGKDVQVDIPEH
LIPLGHEV

6824/6881
FIGURE 6306

GGAGCTGCATGAAAGCCGAAGTTATGGACCGCTAGCATCTGTCACTGGCCACCGGTTTCCGGGAGTAAGCGGCAG
CTACCTTACAGCCCTGACACGAGCCGGGTGCTCTCTCTTCTCACC GCGGCCACGTCCTCGCTGGCTCCGGTG
GCCTCGCTGGGTGCGGAGGAGGCGGAGGACTGTACTCTGAGGCCAAAAGCCAGAGTCGGCCCTGAACGCCCACGA
CTCTCAGGGTCCAGAGGCCGTGAGACCGCGCGGGCTGAAAGGTACCAGGGCCCCTGATGCCGGAGCCCGTGTGC
TCGGCCCTCTTGACAGCGGTAAAGAAACCAAGTGGAAAGAGTGTTTCCTCCTCTGGCCGTAAAGCAGCTGTCCCCG
CCCTACTCCGGACCGCCCCAAAGACTCCATGGGATGGACCTGAGTCAGACGGAAGCAGCAGACCATCAAGGCTAC
GGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCTTCCGGCAGCCTTATGCTGGCTTTGTCTTA
AATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCTCTGCTGAGCAGCCAGCGGAAGTGTACCATCGCCGTCCAC
ATTGCTCACAGGGACTGGGAAGGCGATGCCTGTGCGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAG
ATTGAGGCTTGTCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAACT
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAACTAGAAAATCAAGCTGCACTGACCAACCTGAAG
CAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGCCCATACCTAGGAAAGGAGGCAAGGATGTA
TTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAGTGTGACAAGTGTGGGCTCCTGAAAGGAAT
GTTCCAGAGAAACCAGCTAAATCATGGCACCTTCAATTTGCCATCGTGACGCAGACCTGTATAAATTAGGTTAAA
GATGAATTTCTTGTGTGATGCCTCCTTAGGCACACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGC
AAAGCTGCCAGTAAATGTCTCAGCATTGCTGCTAATTTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTG
TTGTAGATG

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FIGURE 6307

MCVTDKTRPPSSSWFPMPAKYMTFLGPLTSFAVLHLMTFPLYLPCCAGKEAKWKS VSSSSGRKAAVPALLRTAPKT
PWDGPESAESQPLPLGLLWCWTSVTDGSR RPSRLREARGACEDEVWLP LPAALCWLC LKWNQDCGDALASPAEQ
PAELYHRRPHCSQGLGRRCLAGAAGGETRDDSCSDSGLAQERGKVWSRSDSGTR

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FIGURE 6308

GGCACGAGGGCGGGGATCAGAGAGAAGCGAGGGCCTGGTTCTGAGGGGTCGGCTTGAGATCGGCTGAGGGAAGCG
GGCTCAGGGTCTGTGAGGAGGCAAGGTTTCGACAGAGAACAGGCCAGCCAGGAGGTCAGGAGGCCCCAGAGAAGCAC
TGAAGAAGACCTGCCTGTGGGTCTCAATTGCCAGCTCCGGCCCACTCTCCTGCTGCCCTGACCTGAGTCATC
ATGCTTCTTGGGCAGAAGAGTCAGCGCTACAAGGCTGAGGAAGGCCTTCAGGCCCAAGGAGAGGCAACCAGGGCTT
ATGGATGTGCAGATTCCACAGCTGAGGAGCAGAAGGCTGCATCCTCCTCCTACTCTGATCATGGGAACCCTT
GAGGAGGTGACTGATTCTGGGTACCAAGTCCTCCCCAGAGTCCTGAGGGTGCCTCCTCTTCCCTGACTGTCACC
GACAGCACTCTGTGGAGCCAATCCGATGAGGGTTCCAGCAGCAATGAAGAGGAGGGGCCAAGCACCTCCCCGGAC
CCAGCTCACCTGGAGTCCCTGTTCCGGGAAGCACTTGATGAGAAAGTGGCTGAGTTAGTTTCGTTTCTGCTCCGC
AAATATCAAATTAAGGAGCCGGTCACAAAGGCAGAAATGCTTGAGAGTGTATCAAAAAATTACAAGAACCCTTT
CCTGATATCTTCAGCAAAGCCTCTGAGTGCATGCAGGTGATCTTTGGCATTGATGTGAAGGAAGTGGACCCTGCC
GGCCACTCCTACATCCTTGTACCTGCCTGGGCCTCTCCTATGATGGCCTGCTGGGTGATGATCAGAGTACGCCC
AAGACCGGCCTCCTGATAATCGTCCTGGGCATGATCTTAATGGAGGGCAGCCGCGCCCCGGAGGAGGCAATCTGG
GAAGCGTTGAGTGTGATGGGGCTGTATGATGGGAGGGAGCACAGTGTCTATTGGAAGCTCAGGAAGCTGCTCACC
CAAGAGTGGGTGCAGGAGAACTACCTGGAGTACCGCCAGGCGCCCCGGCAGTGATCCTGTGCGCTACGAGTTCCTG
TGGGGTCCAAGGGCCCTTGCTGAAACCAGCTATGTGAAAGTCCTGGAGCATGTGGTCAGGGTCAATGCAAGAGTT
CGCATTTTCTACCCATCCCTGCATGAAGAGGCTTTGGGAGAGGAGAAAGGAGTT**TGAG**CAGGAGTTGCAGCTAGG
GCCAGTGGGGCAGGTTGTGGGAGGGCCTGGGCCAGTGCACGTTCCAGGGCCACATCCACCACTTTCCCTGCTCTG
TTACATGAGGCCCATTCTTCACTCTGTGTTTGAAGAGAGCAGTCACAGTTCTCAGTAGTGGGGAGCATGTTGGGT
GTGAGGGAACACAGTGTGGACCATCTCTCAGTTCCCTGTTCTATTGGGCGATTTGGAGGTTTATCTTTGTTTCCTT
TTGGAATTGTTCCAATGTTCTTCTAATGGATGGTGTAAATGAACCTTCAACATTCAATTTATGTATGACAGTAGAC
AGACTTACTGCTTTTTATATAGTTTAGGAGTAAGAGTCTTGCTTTTCATTTATACTGGGAAACCCATGTTATTTT
TTGAATTCAGACACTACAAGAGCAGAGGATTAAGGTTTTTTTAGAAATGTGAAACAACATAGCAGTAAATACAT
GAGATAAAGACATAAAGAAATTAACAATAGTTAATTCTTGCCCTTACCTGTACCTCTTAGTGTACCCTATGTACC
TGAATTTGCTTGGCTTCTTTGAGAATGAAATTGAATTAATATGAATAAATAAGTCCCCCTGAAAAAAAAAAAAA
AA

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FIGURE 6309

MLLGQKSQRYKAEGLQAQGEAPGLMDVQIPTAEEQKAASSSSTLIMGTLEEVTDSGSPSPQSPGASSSLTVT
DSTLWSQSDEGSSSNEEGPSTSPDPAHLESLEFREALDEKVAELVRFLLRKYQIKEPVTKAEMLESVIKKNHF
PDIFSKASECMQVIFGIDVKEVDPAGHSYILVTCLGLSYDGLLGDDQSTPKTGLLIIVLGMILMEGSRAPEEAIW
EALSVMGLYDGREHSVYWKLRKLLTQEWVQENYLEYRQAPGSDPVRYEFLWGPRALAETSYVKVLEHVVRVNARV
RISYPSLHEEALGEEKGV

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FIGURE 6310

AGTTTCCAGGATGGCTTCTGCATCAACTTCTTAAAAATAATTCACACTCCTTGGAGAATGAGTCTATTAAGAGGAC
GTCTCGAGATGGAGTCAATCGAGATCTCACTGAGGCTGTTCCTCGACTTCCAGGAGAAACACTAATCACTGACAA
AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAAGGGAAGAGTTTACATCACAAATTATCGTCTTTATTT
AAGAAGTTTGGAAACGGATTCTTCTCTAATACTTGATGTTCCCTCGGGTGTGATCTCGAGAATTGAAAAAATGGG
AGGCGCGACAAGTAGAGGAGAAAATTCCTATGGTCTAAATATTACTTGTAAGACATGAGAAACCTGAGGTTCCG
TTTGAAACAGGAAGGCCACAGCAGAAGAGATATGTTTGAGATCCTCACGAGATACGCGTTTCCCTGGCTCACAG
TCTGCCATTATTTGCATTTTTTAAATGAAGAAAAGTTTAACGTGGATGGATGGACAGTTTACAATCCAGTGAAGA
ATACAGGAGGCAGGGCTTGCCCAATCACCATTGGAGAATAACTTTTATTAATAAGTGCTATGAGCTCTGTGACAC
TTACCTTGCTCTTTTGGTGATTCCGTATCGTGCTCAGATGATGACCTCAGGAAGTTGCAACTTTTAGGTCCCGA
AATCGAATTCAGTGCTGTGATGGATTATCCAGAAAATAAGACGGTCATTGTGCGTTGCAGTCAGCCTCTGTGCT
GGTATGAGTGGGAAACGAAATAAAGATGATGAGAAATATCTCGATGTTATCAGGGAGACTAATAAACAAATTTCT
AAACTCACCATTATGATGCAAGACCCAGCGTAAATGCAGTGGCCAACAAGGCAACAGGAGGAGGATATGAAAGT
GATGATGCATATCATAACGCCGAACCTTTCTTCTTAGACATTACATAATTTATGTTATGCGGGAATCTTTAAAA
AAAGTGAAGGACATTGTTTATCCTAATGTAGAAGAATCTCATTGGTTGTCCAGTTTGGAGTCTACTCATTGGTTA
GAACATATCAAGCTCGTTTTGACAGGAGCCATTCAAGTAGCAGACAAAGTTTCTTCAGGGAAGAGTTCACTGCTT
GTGCATTGCAGTGACGGATGGGACAGGACTGCTCAGCTGACATCCTTGGCCATGCTGATGTTGGATAGCTTCTAT
AGGAGCATTGAAGGGTTGAAATACTGGTACAAAAAGAAATGGATAAGTTTGGACATAAATTTGCATCTCGAATA
GGTCATGGTGATAAAAAACACACCGATGCTGACCGTTCTCCTATTTTTCTCCAGTTTATTGATTGTGTGTGGCAA
ATGTCAAAACAGTTCCTTACAGCTTTTGAATTCATGAACAATTTTGTATTATAATTTGGATCATCTGTATAGT
TGCCGATTTGGTACTTTCTTATTCAACTGTGAATCTGCTCGAGAAAGACAGAAGGTTACAGAAAGGACTGTTTCT
TTATGGTCACTGATAAACAGTAATAAAGAAAAATTCAAAAACCCCTTCTATACTAAAGAAATCAATCGAGTTTTA
TATCCAGTTGCCAGTATGCGTCACTTGGAACCTCTGGGTGAATTACTACATTAGATGGAACCCAGGATCAAGCAA
CAACAGCCGAATCCAGTGGAGCAGCGTTACATGGAGCTCTTAGCCTTACGCGACGAATACATAAAGCGGCTTGAG
GAACTGCAGCTCGCCAACCTCTGCCAAGCTTTCTGATCCCCAACCTTACCTTCCAGTCTTTCGCAATGATGCC
CATGTGCAAACTCACTTCTGAGGGGGGACCCTGGCACCGCATTAGAGCTCGAAATAAAGGCGATAGCTGACTTTC
ATTTGGGGCATTGTGAAAAAGTAGATTAAATATTTGCCTCCATGTAGAACTGAACTAACATAATCTTAAACTC
TTGAATATGTGCTTCTAGAAATACATATTACAAGAAAACCTACAGGGTCCACACGGCAATCAGAAGAAAGGAGCTG
AGATGAGGTTTTGGAAAACCCGTACACCTTTAAAAAGCAGTTTTTGAAGACAAAATTTAGATTTAATTTACGTC
TTGAGAAATACTATATATACAAATATATATTTTGTGGGCTTAATTGAAACAACATTATTTTAAATCAAAGGGGAT
ATATGTTTGTGGAATGGATTTTCTGAAGCTGCTTAACAGTTGCTTTGGATTCTCTAAGATGAATCCAAATGTGA
AAGATGCATGTTACTGCCAAAACCAAAATTGAGCTCAGCTTCCTAGGCATTACCCAAAAGCAAGGTGTTAAGTAA
TTGCCAGCTTTTATACCATCATGAGTGGTGACTTAAGGAGAAATAGCTGTATAGATGAGTTTTTCAATTTTGGG
AAATTTAGGGGTAGAAAATGTTTTCCCTAATTTCCAGAGAAGCCTATTTTATATTTTAAAAACTGACAGGG
CCCAGTTAAATATGATTTGCATTTTTTAAATTTGCCAGTTTTATTTTCTAAATCTTTCATGAGCTTGCCATAAAA
TTCGGAATGTTTTTCGGGTTGTGGCAAACCCCAAGAGAGCACTGTCCAAGGATGTCGGGAGCATCCTGCTGCTT
AGGGGAATGTTTTCGCAAATGTTGCTCTAGTCAGTCCAGCTCATCTGCCAAAATGTAGGCTACCGTCTTGGATG
CATGAGCTATTGCTAGAGCATATCCTTAGAAATCAGTGCCCCAGATGTACATGTGTTGAGCGTATTCTTGAAAG
TATTGTGTTTATGCATTTCAATTTCAATGGTGTGGCTTCCCCTCCCCACCCACGCGTGCATAAAAACTGGTTC
TACAAATTTTTACTTGAAGTACCAGGCCGTTTGCTTTTTCAGGTTGTTTTGTTTTATAGTATTAAGTAAATTTT
AAATGCACAGTTCTATTGCTATCTGAACTAATTCATTTATTAAGTATATTTGTAAGGCTAAGGCTCGAGTTAA
AACAATGAAGTGTTTTACAATGATTTGTAAAGGACTATTTATACTAATATGGTTTTGTTTTCAATGAATTAAGA
AAGATTAAATATATCTTTGTAAATTTTATGTATAGTTTAAATGGTCTACCAAGTAAGACATCTCAAATACA
GTAGTATAATGTATGAATTTGTAAAGTATAAGAAATTTTATTAGACATTCTTACTTTTTGTAAATGCTGTAA
TATTTTATAAATTAACAAAGTGCTACTCCATAAAAAAGAAAGCTAATACTAATAGCCTAAAAGATTTTGTGAAT
TCATGAAAACCTTTTTAATGGCAATAATGACTAAAGACCTGCTGTAATAAATGTATTAAGTAAACCT

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FIGURE 6311

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTGCGCGGAGGGAAGCCGGCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCCTCCATTGCCAGCTCCTGCCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATCATGCCCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCCGAGGAGAGGCCCTGGGCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTTCTACTCTAGTTGAAGTCACCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACTACCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCTGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCAAGTTGGTTCAATTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTGCTCGGAAATTGGCAGTACTTCTTTCTGTGATCTTCAGCAAAGCTTCCG
ATTCCTTGACGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACGTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAAATCAGATCATGCCCAAGACAGGCTTCTTGATAATCATCC
TGGCCATAATCGCAAAAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTCGGGGATCCCAAGAAGCTGCTCACCCAATATTTCTGTCAGGAAAACCTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGCTATGAGTTTCTGTGGGGTCCAAGGGCCCTCATTGAAA
CCAGCTATGTGAAAGTCCTGCACCATATGGTAAAGATCAGTGGAGGACCTCGCATTTCTTACCCACTCCTGCATG
AGTGGGCTTTGAGAGAGGGGGAAGAGTGAAGTCTGAGCACCAGTTGCAGCCAGGGCCAGTGGGAGGGGGTTTGGGC
CAGTGCACCTTCCGGGGCCCCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCATTCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATTCTTTGTTTCTGTT
GGAGTTGTTCAAATGTTTCCTTTTAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTGTTTTTATTTCAGATTGGGAAATCCATTCCATTTG
TGAATTGTGACATAATAATAGCAGTGGAAAAAGTATTTGCTTAAATTTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAAGATAGTTGATTCTTGCTTGTACCTCAATCTATTCTGTAAATTAACAAATAT
GCAAACCAGGATTTCTTGACTTCTTTGAGAAATGCAAGCGAAATTAATCTGAATAAATAATTCTTCTCTTC

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FIGURE 6312

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSSTLVEVTLGEVPAAESPDPPQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEGPSTFPDLESEFQAALSRKVAKLVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASDSLQLVFGIELMEVDPIGHVYIFATCLGLSYDGLLDGNQIMPKTGFLIIILAIIAKEGDCAPEEKIWEEL
SVLEVFEGRSDSIFGDPKKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHMHMVKISGGPRIS
YPLLHEWALREGEE

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FIGURE 6313

CGGCCTGACGTGCGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGAAGTTACCCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCTCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGACAGCTGGTCTTTGGCATCG
AGGTGGTGGAAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTTCATGCCCAAGACAGGCCTCCTGATAATCGTCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGAGTACCGGCAGGTGCCCCGCGAGTG
ATCCTGCATGCTACGAGTTCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCTTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGTCTGGGCCAGTGCACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTTGGAATTGTTCAAATGTTCTTTTAACA
AATGGTTGGATGAACTTCAGCATCCAAGTTTATGAATGACAGTAGTCACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCTGTTTTTTTATTTCAGATTGGGAAATCCATTCCATTTTGTGAGTTGTACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAATACATGATACAAGGAACCTCAAAGATAGTTAATT
CTTGCCCTTATACCTCAGTCTATTATGTAAAATTAATAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

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FIGURE 6314

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEVPAADSPSPPHSPQGASSFSTTI
NYTLWRQSDEGSSNQEEEGPRMFPDLESEFQAAISRKMVELVHFLLLKYRAREPVTKAEMLESVLRNCQDFFPVI
FSKASEYLQLVFGIEVVEVVPISHLYILVTCLGLSYDGLLDNQVMPKTGLLIIVLAIIAIEGDCAPEEKIWEEL
SMLEVFEGREDSVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLKIGGEPHIS
YPPLHERALREGE

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FIGURE 6315

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAGTTACCCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTCAATTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGACAGCTGGTCTTTGGCATCG
AGGTGGTGGAAGTGGTCCCCATCAGCCACTTGACATCCTTGTCACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTCATGCCCAAGACAGGCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGAGTACCGGCAGGTGCCCCGGCAGTG
ATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCCTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGCACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCATTCTGCCTCTTTGAAGAGAGCAGTCAGCATTCCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTTGGAATTGTTCAAATGTTCTTTTAACA
AATGGTTGGATGAACCTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTATTTCAGATTGGGAAATCCATTCCATTTTGTGAGTTGTCACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAATACATGATACAAGGAACCAAAAGATAGTTAATT
CTTGCCCTTATACCTCAGTCTATTATGTAAAATTAAAAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

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FIGURE 6316

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTGCGCGGAGGGAAGCCGGCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCCAGCTCCTGCCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATCATGCTCTTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCCTTGAGGCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACTACCCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCCGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCGAGTTGGTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTGCTCGGAAATGGCAGTATTCTTTCTGTGATCTTCAGCAAAAGCTTTCCA
GTTCTTTCAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACTTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGGCAGGCCTCCTGATAATCGTCC
TGGCCATAATCGCAAGAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGGAAGACAGTATCTTGGGGGATCCCAAGAAGCTGCTCACCCAACATTTTCGTGCAGGAAAACCTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGTTATGAATTCCTGTGGGTCCAAGGGCCCTCGTTGAAA
CCAGCTATGTGAAAGTCTGACCATATGGTAAAGATCAGTGGAGGACCTCACATTTCTACCCACCCCTGCATG
AGTGGGTTTTGAGAGAGGGGGAAGAGTCTGAGTCTGAGCAGGATTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGC
CAGTGCACCTTCCGGGGCCGCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCATCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATTCTTTGTTTCTGTT
GGAGTTGTTCAAATGTTCTTTTAACGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTTACTCAAATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGTAAAAGTATTTGCTTAAAATTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAGATAGTTGATTCTTGCCTTGTACCTCAATCTATTCTGTAAAATTAAACAAATAT
GCAAACCAGGATTTCTTGACTTCTTTGAGAATGCAAGCGAAATTAATCTGAATAAATAATTCTTCTCTCCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6317

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTILGEVPAAESEDPQPQSGASSLPTTM
NYPLWSQSYEDSSNQEEGPSTFPDLESEFQAALSRKVAELVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASSSLQLVFGIELMEVDPIGHLYIFATCLGLSYDGLLDNQIMPKAGLLIIVLAIAREGDCAPEEKIWEEL
SVLEVFEGRSDILGDPKKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRALVETSYVKVLHMHMVKISGGPHIS
YPPLHEWVLREGEE

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FIGURE 6318

GAGCAGCGCGCCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTGCTTCCCTCGGCTGTGGACCGGGCGGCACGC
ACGCGGTGCAGGGTAACATGCGGGATGCGGAAGTAATTATTTTGCCAAAGAAACATAAGAAGAAAAAGGAGCGGA
AGTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTG
CTAAGTTGGACACGTCTCAGTGGCCCCCTTTTGCTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATA
CACCTCTTGATGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAATCTTG
ACAAGCCCTCTAACCCTCTTCCCATGAGGTGGTAGCCTGGATTGACGCGATACTTCGGGTGGAGAAGACAGGGC
ACAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGT
CACAAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGCCGGCTGCACAACTGCTATTGAAGGGGGGACCCAGCTTT
CTAGGGCCCTAGAACTCTGACAGGTGCCTTATTCAGCGACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCC
GAGTGAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAAAGAAGATTAGGAATCTTTTGGGTGAGTT
GTGAGGCTGGCACCTACATTCCGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGG
AGCTTCGGAGGGTTCTGTTCTGGAGTCATGAGTGAAAAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTC
AGTGGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACAT
CTCATAAAGCGCTGGTTATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTG
TTCTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGAGAAGCAATCTGCA
TGGCTATTGCATTAATGACCACAGCGGTCTCTTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGA
TCATGGAGAGAGACACTTACCCTCGGAAGTGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCCACAGACAGCACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAAGAGGTGGTTGCTGAAGTGGTAAAAGCCCCGAGGTAGTTGCCGAAGCAGCAAAAACTG
CGAAGCGGAAGCGAGAGAGTGAGAGTGAAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGGCCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGCAAAAGAGGTAGAATTGGTTTCTGAGTAGTGAAGGCCACTTG
AAGCTGGAGGAGAACTAAAGCCTTATTGAGAAAACATGTTATAGATCCTTTTGTGCTGAGAGAGTGGAACATA
GGTCTTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
TCATCCCCTCTTGTCCTGTTTTAAGGATATGGGTGGTGAAAGATGAAAGAGGCAGAGTTTATCCCAATGACTTCT
CTGTTTGAGTTGGGAAGCCTCACCTTCAGACCCAGTAACTGTCCGAGCTGTCTGCTAGTGGTTGCTTAACTC
GTAGTCTTAGTTTGCAATTTTTTAAATCCCCCTCTGTTTAAAAGGTTTGTAACAAAAACAAAAAACTAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGTCACTGAATTTTGTCTCTGAATTCAGTATAAC
TGAGTTTTGTCCATGCTGGTGTCTGGGTTATAGGCCTGATGGGCCTGGTAGTTTTCCATCTTGTCTGGCCTAGA
GGTCAGTCCCTTGCACCTTCTCAAAGCTTGTGTACAGTGCTCACCTAAATCCATCTGACTACTTGTCTCTGTGCC
CTCTTGTTTTAGGCCTCGTTTACTTTTTAAAAATGAAATTGTTTCAATTGCTGGGAGAAGAATGTTGTAATTTTAC
TTATTAAAGTCAACTTGTAAAGTTTTTATGTATTCTGTTGGGTTTTCTTGTGATCTCATGCTAGCAGAGCAA
AAATTGTAAATATTTTGATTAAAAATCTAGGGACCTTTATGTCTATTTGGAATTCGATATCAA

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FIGURE 6319

MADAEVIILPKKHKKKKERKSLPEEDVAEIQHAEFLIKPESKVAKLDTSQWPLLLKNFDKLNVRTTHYTPLACG
SNPLKREIGDYIRTGFINLDKPSNPSSHEVVAWIRRLRVEKTGHSGTLDPKVTGCLIVCIERATRLVKSQQSAG
KEYVGIVRLHNAIEGGTQLSRALETLTGALFQRPPPIAAVKRQLRVRTIYESKMI EYDPERRLGIFWVSCEAGTY
IRTL CVHLG LLLGVGGQMQLRRVRSGVMSEKDHMTMHDVLD AQWLYDNHKDESYLRRVVYPLEKLLTSHKRLV
MKDSAVNAICYGAKIMLPGLRYEDGIEVNQEIVVITTKGEAICMAIALMTTAVISTCDHGIVAKIKRVIMERDT
YPRKWGLGPKASQKKLMIKQGLLDKHGKPTDSTPATWKQEYVDYSESAKKEVVAEVVKAPQVVAEAAKTAKRKRE
SESEDETTPAAPQLIKKEKKKSKDKKAKAGLESGAEPGDGSDTTKKKKKKKKAKEVELVSE

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FIGURE 6320

AGGGACAGCCCAGAGGAGGCGTGGCCACGCTGCCGGCGGAAGTGGAGCCCTCCGCGAGCGCGGAGGCCGCCGGG
GCAGGCGGGGAAACCGGACAGTAGGGGCGGGGCGGGCCGGCGATGGGGATGCGGGAGCACTACGCGGAGCTGCA
CCCGTGCCCGCCGGAATTGGGGATGCAGAGCAGCGGCAGCGGGTATGGCAGGCAGCCGGCGGGCCGGCCTCCAGC
GCAGGTGCCCGAGAGGCAGGGGCTGGCCTGGGATGCGCGCGCACCTGCCCTCGCCCCGCCCCGCCGACGAGGG
GTGGTGGCCGAGGCCCCGCCCCGACGCCTCGCCTGAGGCGGGTCCGCTCAGCCCAGGCGCCCGCCCCGCCCGG
GCCGATTAAATGGGCCGGCGGGGCTCAGCCCCGAAACGGTCGTACACTTCGGGGCTGCGAGCGCGGAGGGCGA
CGACGACGAAGCGCAGACAGCGTCATGGCAGAGCAGGTGGCCCTGAGCCGGACCCAGGTGTGCGGGATCCTGCGG
GAAGAGCTTTTCCAGGGCGATGCCCTCCATCAGTCGATACACACATATTCATCATCATGCGGTGCATCGGGTGAC
CTGGCCAAGAAGAAGATCTACCCACCATCTGGTGGCTGTTCCGGGATGGCCTTCTGCCGAAAACACCTTCATC
ATGGGCTATGCCCGTTCCCGCCTCACAGTGGCTGACATCCGCAAACAGAGTGAGCCCTTCTTCAAGGCCACCCCA
GAGGAGAAGCTCAAGCTGGAGGACTTCTTTGCCCGCAACTCCTATGTGGCTGGCCAGTACGATGATGCAGCCTCC
TACCAGCGCCTCAACAGCCACATGGATGCCCTCCACCTGGGGTACAGGCCAACCGCCTTCTTACCTGGCCTTG
CCCCGACCGTCTACGAGGCCGTACCAAGAACATTACAGAGTCTTGCATGAGCCAGATAGGCTGGAACCGCATC
ATCGTGAGAAGCCCTTCGGGAGGGACCTGCAGAGCTGTGACCGGCTGTCCAACCACATCTCCTCCCTGTTCGT
GAGGACCAGATCTACCGCATCGACCACTACCTGGGCAAGGAGATGGTGCAGAACCTCATGGTGCTGAGATTGGC
AACAGGATCTTCGGCCCCATCTGGAACCGGGACAACATCGCCTGCGTTATCCTCACCTTCAAGGAGCCCTTTGGC
ACTGAGGGTCGCGGGGGCTATTTTCGATGAATTTGGGATCATCCGGGACGTGATGCAGAACCACTACTGCAGATG
CTGTGTCTGGTGGCCATGGAGAAGCCCGCTCCACCAACTCAGATGACGTCCGTGATGAGAAGGTCAAGGTGTG
AAATGCATCTCAGAGGTGCAGGCCAACAATGTGGTCTGGGCCAGTACGTGGGGAACCCCGATGGAGAGGGCGAG
GCCACCAAAGGTACCTGGACGACCCACGGTGCCCCGCGGGTCCACCACCGCCACTTTTGACGCCGTGTCCTC
TATGTGGAGAATGAGAGGTGGGATGGGGTCCCTTCATCCTGCGCTGCGGCAAGGCCCTGAACGAGCGCAAGGCC
GAGGTGAGGCTGCAGTTCATGATGTGGCCGGCGACATCTTCCACCAGCAGTGCAAGCGCAACGAGCTGGTGATC
CGCGTGCAGCCCCAACGAGGCCGTGTACACCAAGATGATGACCAAGAAGCCGGCATGTTCTTCAACCCCGAGGAG
TCGGAGCTGGACCTGACCTACGGCAACAGATACAAGAACGTGAAGCTCCCTGACGCCTACGAGCGCCTCATCCTG
GACGTCTTCTGCGGGAGCCAGATGCACCTTCGTGCGCAGCGACGAGCTCCGTGAGGCCTGGCGTATTTTACCCCA
CTGCTGCACCAGATTGAGCTGGAGAAGCCCAAGCCCATCCCTATATTTATGGCAGCCGAGCCCCACGGAGGCA
GACGAGCTGATGAAGAGAGTGGGTTTCCAGTATGAGGGCACCTACAAGTGGGTGAACCCCAACAAGCTCTGAGCC
CTGGGCACCCACCTCCACCCCGCCACGGCCACCCTCCTTCCCGCCGCCCCGACCCCGAGTCGGGAGGACTCCGGG
ACCATTGACCTCAGCTGCACATTCTGGCCCCGGGCTCTGGCCACCCTGGCCCGCCCCCTCGCTGCTGCTACTACC
CGAGCCCAGCTACATTCTCAGCTGCCAAGCACTCGAGACCATCTGGCCCCCTCCAGACCCTGCCTGAGCCCAGG
AGCTGAGTCACCTCCTCCACTCACTCCAGCCCAACAGAAGGAAGGAGGAGGGCGCCCATTCGTCTGTCCAGAGC
TTATTGGCCACTGGGTCTCACTCCTGAGTGGGGCCAGGGTGGGAGGGAGGACAAGGGGGAGGAAAGGGGCGAGC
ACCCACGTGAGAGAATCTGCCTGTGGCCTTGCCCCCAGCCTCAGTGCCACTTGACATTCTTGTACACAGCAAC
ATCTCGAGCCCCCTGGATGTCCCTGTCCCACTCTGCACCTCATGGCCACCCCGTGCCACCCGTAGGCAGC
CTCTCTGCTATAAGAAAAGCAGACGCAGCAGCTGGGACCCCTCCCAACCTCAATGCCCTGCCATTAAATCCGCAA
ACAGCC

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FIGURE 6321

GAGCTCGCGGGCGACTGCCTGCCAGGCAGACGCTGCAGCTAAGCTGCGCGGTGGCTGTGGCAGGTGAGAGCCTCC
GGAAGGGAGGCGGCTCTGGCCCCGACCCTGCTCCGCGATCGCCCACTCGGGCGCCCGGCCGGCCTGGCAGGGA
AGGGCCGCGCCGCGCGCGCGTTCGCGAGGCCTGGCGGGGCGCGGGGCCAGGAATGGCGTAAGGGGCCCCC
CCAGACTCCGAGACGGCCCGAGCGGGTCGCCGGCTGTGGGACGGCGGCGTGCCCTTCCTTTCTCCCTCCAGGT
TCGCGCCCGAGCTCTGCTAGCCACCCGTCGACAACTTCCGACTCCCAGGGACAGCCCTGCCATCAAGGAAGAC
AGCACAGGACTGGGACCCACCCATGAACCCTTCTCAGGACAACCCAACAGCACCAGTGGGGATGTTCTCCTAAGC
CGCAGAGGGCCTGGGCACGCCATCCGTCTCCAGGAAGAGCCATGGTGTTAATGCAGGACAAGGGCAGCTCTCAG
CAGTGGCCTGGTCTGGGGGGCGAGGGTGGTGGCACAGGTCCCTTAAGCATGCTCAGAGCTGCCCTGCTGCTCATC
AGCCTGCCATGGGGGGCCCAAGGGACAGCCAGCACCAGCCTCAGCACTGCTGGGGGTCAACCGTGCCACCGACT
GGGGGCGCTACTTGAGCATTGGAGATGGCTCTGTGATGGAGTTTGAGTTTCTGAGGACAGTGAGGGCATCATC
GTGATCTCCAGCCAGTACCCAGGCCAGGCCAACAGGACGGCGCCTGGCCCCATGCTCAGGGTCACCTCCCTGGAC
ACAGAGGTGCTGACCATCAAGAACGTGAGTGCTATAACCTGGGGAGGCGGGGGTGGCTTTGTGGTGAGCATCCAC
TCAGGCCTGGCTGGGCTGGCCCCACTCCACATCCAGCTCGTGGACGCCCATGAGGCCCCGCCACACTGATTGAG
GAGCGGAGAGACTTCTGCATCAAGGTCTCACCTGCTGAAGACACGCCTGCCACCCTCAGCGCCGACCTGGCCCCAC
TTCTCGGAAAACCAATCCTCTACCTGCTCCTGCTCTTATCTTTGTCAACAAGTGTTTCGTTTGGGTGCAAAGTG
GAACTCGAGGTCTGAAGGGGCTCATGCAGAGCCCCAGCCCATGCTGCTGGGCCTCCTGGGCCAGTTTCTGGTC
ATGCCCTTGTAAGCTTTCTCATGGCCAAGGTCTTCATGCTGCCCAAGGCCCTGGCTCTGGGCCTCATCATCACC
TGCTCGTCGCCTGGCGGGCGGGGGAGCTACCTCTTCAGCCTCCTTCTTGAGGGGACGTACCCCTGGCCATCTCC
ATGACTTTCTCTACGGTGGCTGCCACTGGCTTCTTGCTCTGCTTTCGGCCATCTACAGCCGCCTGCTCAGC
ATCCATGAGACGCTCCACGTGCCCATCTCCAAGATCCTGGGGACCCTGCTGTTTATTGCCATCCCCATAGCCGTG
GGCGTGCTGATCAAGTCCAAGCTCCCCAAGTTCTCCAGCTGCTGCTGCAGGTGCTCAAGCCCTTCAGCTTTGTG
CTCCTCCTGGGCGGCCTCTTCCTGGCCTATCGCATGGGGGTCTTCATCCTGGCAGGCATCCGGCTACCCATCGTA
CTGGTGGGTATCACGGTGCCCCGTGGTTGGCCTGTTGGTGGGCTACTGCCTAGCCACGTGCTGAAGCTGCCAGTG
GCCCAGCGGCGGACGGTCAGCATTGAGGTAGGGGTGCAGAACAGCCTGCTGGCCTTGGCCATGCTGCAGCTATCC
CTCCGCCGCTTCAAGCTGACTATGCCTCCCAGGCCCCCTTCATTGTGGCGCTGAGCGGCACCTCCGAGATGCTG
GCCTTGGTCATTGGCCACTTCATCTACAGCAGCCTGTTCCAGTTCCCTGAGGCCTCTGGGTCAAGCTTTCATCA
GCCCCAGCCCCCAGCTCCACCAAAGTTCTCATGCACTATGCACTCAGAAAAATCCAGGCTTATTTTTTACTGA
TTTTTTATTCTCCAGCTTTTCAGTGCCAAAGAGGCCATGCTGAGTTAGGTAGGTGGGCGCTGCCAGAAAAATATAT
TTCAATAAAAGAGAGAAGCAAGC

6840/6881

FIGURE 6322

MVLMQDKGSSQQWPGLGGEGGGTGPLSMLRAALLLISLPWGAQGTASTSLSTAGGHTVPPTGGRYLSIGDGSVME
FEFPEDSEGIIVISSQYPQANRTAPGPMLRVTSLDTEVLTIKNVSAITWGGGGGFVVSIIHSGLAGLAPLHIQLV
DAHEAPPTLIEERRDFCIKVSPAEDTPATLSADLAHFSENPIYL LLLPLIFVNKCSFGCKVELEV LKGLMQSPQP
MLLG L LGQFLVMPLYAF LMAKVFM L PKALALGLIITCSSPGGGGSYLF S L L LGGDVTLAISMTFLSTVAATGFLP
LSSAIYSRLLSIHETLHVPI SKILGTLLFIAPIAVGVLIKSKLPKFSQ L L LQVVKPFSFV L L LGGFLAYRMGV
FILAGIRLP I V L V G I T V P L V G L L V G Y C L A T C L K L P V A Q R R T V S I E V G V Q N S L L A L A M L Q L S L R R L Q A D Y A S Q A P F
I V A L S G T S E M L A L V I G H F I Y S S L F P V P

CCGCGCGCTGCCGCTGCCGCTGTGCGTGTGCTGCC
ATGGCTCAATACAAGGGCGCCGCGAGCGAGGCCGGCCGCGCCATGCACCTGATGAAGAAGCGGGAGAAGCAGCGC
GAGCAGATGGAGCAGATGAAGCAGCGCATCGCGGAGGAGAACATCATGAAATCCAACATTGACAAGAAGTTCTCT
GCGCACTACGACGCGGTGGAGGCAGAGCTCAAGTCCAGCACCGTGGGTCTCGTGACCCTGAATGACATGAAGGCC
AAGCAGGAGGCTCTGTTGAAGGAGCGGGAGAAGCAGCTGGCCAAGAAGGAGCAGTCCAAGGAGCTGCAGATGAAG
CTGGAGAAGCTTCGAGAGAAGGAGCGTAAGAAGGAAGCCAAGCGGAAGATCTCCAGCCTGTCTTACCCTGGAG
GAGGAAGAAGAGGGGAGGCGAGGAGGAAGAGGAGGCGCCATGTATGAGGAGGAGATGGAAGGGAAGAGATCACC
ACGAAGAAGAGAAACTGGGGAAGAACCAGACGTTGACACAAGCTTCTTGCTGATCGAGACCGTGAGGAGGAG
GAGAATCGGCTTCGGGAAGAGCTGCGGCAGGAGTGGGAAGCCAAGCAGGAGAAGATCAAGAGTGAGGAGATCGAG
ATCACCTTCAGCTACTGGGATGGCTCTGGGCACCGCGCGACAGTCAAGATGAGAAAGGGCAACACCATGCAGCAG
TTCTTCGAGAAGGCGCTCGAGATCCTTCGGAAGACTTCAGTGAGCTGAGGTCCGACAGGGGTGGAGCAGCTCATG
TACATCAAGGAGGACTTGATCATCCCTCACCATCACAGCTTCTACGACTTCATCGTCACCAAGGCACGGGGGAAG
AGTGGACCACTCTTCAACTTTGATGTTTCATGACGATGTGCGGTTGCTCAGTGACGCCACTGTGGAGAAGGATGAG
TCCCATGCAGGCAAGGTGGTGCTGAGGAGCTGGTACGAGAAGAAACAAGCACATCTTTCCCGCCAGCCGCTGGGAA
CCCTACGACCCTGAAAAAGAAGTGGGACAAGTACACGATCCGCT**TGAG**CATCCAGGAGGCTGCGCGGCCCGGCTCC
TCAGCTCCCTCAGTGTGCCCCGTGGTGTACCGGGACTCCAGGCACCCGCTCCCCTGCGACCATGCCAGGCACGC
TGGGAGGAGGACGGCAGCTGCTCGTGTCTGCCCCTGCCACATCAGTGACTGCTTTATTCTTTTCCAATAAAGAA
GTGCACGTGTCAGAGCTGGAGCGCCTGCATTGTGAG

6842/6881
FIGURE 6324

MAQYKGAASEAGRAMHLMKKREKQREQMEQMKQRIAEENIMKSNIDKKFSAHYDAVEAELKSSTVGLVTLNDMKA
KQEALVKEREKQLAKKEQSKELQMKLEKLREKERKKEAKRKISSLSFTLEEEEEEGGEEEEEAAMYEEEMEREET
TKKRKLGNPDVDTSFDPDRDEEEENRLREELRQEWAKQEKIKSEEIEITFSYWDGSGHRRTVKMRKGNTMQQ
FLQKALEILRKDFSELRSAGVEQLMYIKEDLIIPHHSFYDFIVTKARGKSGPLFNFDVHDDVRLLSDATVEKDE
SHAGKVVLRSWYEKNKHIFPASRWEPYDPEKKWDKYTIR

6843/6881
FIGURE 6325

CTTGAACGCCTGACCTCGTATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCC
CAGCCCATAATTTATTGATTTTTTAAATTTGTCCAGCCTTCTATTACCACGTCGAATCCATTAGCTACAGCCAT
CCCATGAGAAGCTGAGTGGATTACAGCCCCACCTCCTGCTCAGAGCCCTGTCCGAGCACCTCATTGTCCCAACA
GCATTACTGCAGGACCCCCAGGACGTTGGACTGCCAGCTCCCTGGGTCTCCTCCTCTCTGGGGCAGATCCTCAGT
CCTCCCTTGACTTCACGACTGTGGCCAGATCATGTGTGGACTGTCCCTCTCTTTGGGTCTCCAGAGCGCTTGAT
CAAACACCCCTAACTCAGAAGTGTGCAGCCACACTGGGACTCAGAACCCAACAACAGGGACAGAAGACTCACGCC
CTTGGGGTGCCCGGTCTCGTGGCATCAGGCATGACTTCCAGCTCCTGCGCCTTCCCCAGCAACTGCTGACTGGGG
ACCCAGACCGGGAGCTGAGCGACGGGCCTGGCGAGCGAAGCTCGGGGTCTCACTCAGGCACCAGCCCTCCTTGC
CCCAGGCTTGAGTGACTCACAGCCCTATTAGGCAGGAGCTGCTCTTCTGGGGTATCGCGATCCACTTAAGGATG
AGGCAGACTTGGTGACAAGCTGGTCTGAGCAGCGCTCCAGAGCCAGAAGTGAAGCCAGTGAGAGCGCACCCCTGG
GGCAGCCTGGATTCTCTGGGTGTCCCGGCAGCCACACAGCCATGCACTACCCAAGTGAAGTCTCTTCTCTCA
TCCTGGCCAATGGGGCCAGGCCTTTCGCATCTGCGCCTTCAATGCCAGCGGCTGACACTGGCCAAGGTGGCCA
GGGAGCAGGTGATGGACACCTTAGTTCGGATACTGGCTCGCTGTGACATCATGGTGTGTCAGGAGGTGGTGGACT
CTTCGGCAGCGCCATCCCGCTCCTGCTTCGAGAAGTCAATCGATTGATGGCTCTGGGCCCTACAGCACCCCTGA
GCAGCCCCCAGCTGGGGCGCAGCACCTACATGGAGACGTATGTGTACTTCTATCGGTACACAAAACACAGGTCC
TGAGTTCCTACGTGTACAACGATGAGGATGACGTCTTTGCCCGGAGCCATTTGTGGCCAGTTCTCTTTGCCCA
GCAATGTCTTTCCAGCCTTGGTGTGGTCCCGCTGCACACCACTCCTAAGGCCGTAGAGAAGGAGCTGAACGCCC
TCTACGATGTGTTTCTGGAGGTCTCCAGCACTGGCAGAGCAAGGACGTGATCCTGCTTGGGGACTTCAATGCTG
ACTGCGCTTCACTGACCAAAAAGCGCTGGACAAGCTGGAGCTGCGGACTGAGCCAGGCTTCCACTGGGTGATTG
CCGATGGGGAGGACACCACAGTGCGGGCCAGCACCCACTGCACCTATGCCCGCTGCTGCTGCACGGGGAGCGCT
GCCGGAGTCTGCTGCACACTGCGGCTGCCTTTGACTTCCCCACGAGCTTCCAGCTCACCAGGAGGAGGCCCTCA
ACATCAGTGACCACTACCCCGTGGAGGTGGAGCTGAAGCTGAGCCAGGCGCACAGCGTCCAGCCTCTCAGCCTCA
CTGTTCTGTTGCTGCTATCACTCCTGTCCCTCAGCTGTGCCCTGCTGCCTGAGCGTCCCCCTACCCCCCAGGG
CCTGCTGCCTTTTGGGACTTAAACCCAGCCTCCCCCGTCCATCCAGCCCTGGGGCTGGGGGGCTTCAACTATAG
TTGCCCTGTGACTGTAGTCCACCCCTGCCTGCCTTGTTTGATTGGCTCTTGTTCTTTGGTTGGGCTTGTGCCTA
GATTAGGAGAGGAAGCCAGGGGCCCTGCACTCATGCCACCTGCCAGGTAGTGTAGTATCAGGAGTGGAGACAAAG
TGGGCTCTGGGTTGGGTAGGGGAAGGGAGGGTTAGAAAGAGGAATGAAGATGTTGTATGACAAGAAGGAAAGT
TACTGAGAACAAAACCCAGATTGGTGAGATAGGACACTTGTGCAGCAGATATGCCAATGGGCCATGTTTATTGT
GGATTGGTAAGAATCACCAGGAAACCATTAAGCCCCAATAGCTACAAGGAGGGTGGTTAATCTGCTATATCAAAC
TCCTTCCCTGAAACCAGCAAAACACCGGGAAACATTTTGGCTCATTATAATCCGGTGAACAATGCAGTCAGGCCTG
TTATAACCGCTGAGCAGCCACACTCGCACCTCCTGGGTGCTGTAGTCTGTGTGGTACAGGCTTCTGCATGCCTG
GTAAAGGTCCAGCCAAGGCTGGTCAAGGCAACATCTCCACACAGAAAATCTGCACCAAGTTATGTAAGCTAAAAAG
CTGTGTGAACCCAGGTGTCCCGAAAGGGGCTGCAGGACACAGCAAAATGCCAGCAGCATGCCGACCCCTCCCT
TCCATCCTCCTCTCCAAAGAAGAGAGGTGAGGAAAAACTGGCTGGGACGCTAGAAGGTCATGTGTTAACTAT
AATCACATTTATGTTTTGGAACCATACCCCAAGGTAAAAAAAATAAAAGGTATTCCAGGTATGTTTGGCAA
AATAAAATAAAGGTAATTAATAAACCT

6844/6881
FIGURE 6326

CTCTTTCCCTTCGGTGTGCCACTGAAGATCCTGGTGTGCGCCATGGGCCGCCGCCGCCGCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCCT
CTGAAGCCCTGGAGGCTGCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCAATCCGCATCAACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCC
AAACAGGCATGCGAGGTGCCCTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTTACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAGGAGCATGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCAACAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
AAAAGCGGCTCATCCAGATGGCTGTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCC
TGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTACCAATAAAATTTCTACTTCTGTCCACCTAT
GTCTTTGTATCTACATTCTTGACGGGGAAGGAACCTTCTCTGGGAACCTTTGGGTCAATTGCCCTTTCACTTCAGA
AACAGGTTGACAACCTAGCCCTGCTCATGAGGCAGCAAAACCCTGCAAAGGGCTGGGACTGGTGGCCTTATGTCAG
TTGTCTACTCTGGAGCTTGACTTGGACCTCCCCAGGTCTAGGCAGTAGGTTGAAAAACACTGAAGTGCTTTTCA
TGAAGCACAGCTGCAGCAAAGCCTTGCAATCCAGGCTGGGGTCAAGCTACAGTTGTGTTGCTTATTACAACACA
TGCGGACCAAGAGGGGCTTGTGGGCTAGAGGCTGACCAGCAGCGTTTATTAGCAAGGGTAGGTGTGCATCACAT
TGGGCTTGTTCTCACCACATCTGGTTTGGCCATTCTCTCTGGTGGGAATCATCCAGGTACTGCTGAGGTACCTG
CGATTTGCCCCATTTCTATCTCTAGCAACCTCTGGGCCCCATGCCCCCACCCTTCTAGAACCTGCATTTCCCA
GGGCCTTACCACCTGACCAAAGGTCTAGGCTAACCTTTGGTCATTTGTAAACAGACCTCGGAACAGACACGTGT
GTGGCATGGTTTGGCCTGGGGATCTTAGATGTCTGACCTGAACATTGTAGAACAGCGCTGGCTTTTGGGGGAGC
AGCAAAAATGAGAGGAGTGCTAGGTGGGTGGCCTGAGCATCTGTATCCAGGGACAGGACTCCAAAGGCTTTTGGT
CCCAGAGCTGGGGTATGTTGGCCCCAGCCCCAGCCTGTGGCTCCCAAAAGGCTCTGGTTTTTTGTAATCTCAG
TTTACAGCCATTTCTTAGGTTTTTAATTACCTTTATTTTATTTTGCCAAACATACCTGGGAATACCTTTTATTTT
TTTTTTACCTTGGGGTGATGGTTCCAAACCATAAATGTGATTATAGTTAACACATGACCCTTCTAGCGTCCCAGC
CAGTGTTTTTCTGACCTCTCTTCTTTGGAGAGGAGGATGGAAGGGAGGGGTCCGGCATGCTGCTGGCATTTTGC
TGTGCTCTGCAGCCCTTTCCGGGACACCTGGGTTTACACAGCTTTTTAGCTTACATAACTGGTGCAGATTTTCT
GTGTGGAGATGTTGCCCTTGACCAGCCTTGGCTGGACTTTACCAGGCATGCAGAAGCCTGTACCAACACAGACTAC
AGCACCCAGGAGGTGCGAGTGTGGCTGCTCAGCGTTATAACAGGCCTGACTGCATTGTTACCCGATTATAATG
AGCCAAAATGTTTCCCGGTGTTTGTGTTTTCAGGGAAGGAGTTTGATATAGCAGATTAAACCACCTCCTTGTAG
CTATTGGGGCTTAATGGTTTCTTGGTGATTCTTACCAATCCACAATAAACATGGCCCATTTGGCATATCTGCAAAA
AAAAAAAAAAAA

6845/6881
FIGURE 6327

MGRRPARYRYCKNKYPKSRFCRGVPDAKIRIFDLGRKKAKVDEFPLCGHMSDEYEQLSSEALEAARICANKY
MVKSCGKDGFIHVRLLHPFHVIRINKMLSCAGADRLQTGMRGAFGKPQGTVARVHIGQVIMSIRTQLQNEHVIE
ALRRAKFKFPGRQKIHISKKGFTKFNADEFEDMVAEKRLIPDGCGVKYIPSRGPLDKWRALHS

6846/6881

FIGURE 6328

CGGCCGGTTTTGGTAGGCCCGGGCCGCCAGGCCCTCCGCCTGAGCCCGCACCCGCCATGGACAACCTACGCAGATCTTTTCGGATACCGAGCTGACCACCTTGCTGCGCCGGTACAACATCCCGCACGGGCCTGTAGTAGGATCAACTCGTAGGCTTTACGAGAAGAAGATCTTCGAGTACGAGACCCAGAGGCGGCGGCTCTCGCCCCCAGCTCGTCCGCCGCCTCCTCTTATAGCTTCTCTGACTTGAATTCGACTAGAGGGGATGCAGATATGTATGATCTTCCCAAGAAAGAGGACGCTTTACTCTACCAGAGCAAGGGCTACAATGACGACTACTATGAAGAGAGCTACTTCACCACCAGGACTTATGGGAGCCCGAGTCTGCCGGCCCGTCCAGGGCTGTCCGCCAGTCAGTGACTTCATTCCCAGATGCTGACGCTTTCCATCACCAGGTGCATGATGACGATCTTTTGTCTTCTTCTGAAGAGGAGTGCAAGGATAGGGAACGCCCCATGTACGCCGGGACAGTGCCTACCAGAGCATCACGCACTACCGCCCTGTTTCAGCCTCCAGGAGCTCCCTGGACCTGTCCTATTATCCTACTTCCTCCTCCACCTCTTTTATGTCTCTCATCATCTTCTCTTCATGGCTACCCGCCGTGCCATCCGGCCTGAAAACCGTGCTCCTGGGGCTGGGCTGGGCCAGGATCGCCAGGTCCCCTCTGGGGCCAGCTGCTGCTTTCTCTGGTCTTTGTGATCGTCCTCTTCTTCAATTTACCACTTCATGCAGGCTGAAGAAGGCAACCCCTTCTAGAGGAGCCATGAGGGTCTGGGCTTCAGAGCTAGGTCTTTGGGGAAGTCCTGGCTGACTGCCTTAGCAGTGGGGTGGGGTGGGGGCAGGGGCAGGGGCTTTATGTGTTTTTGTCTGGGGGGCGTGGGCCTAGCCCAGAGTAGTGCTTGTCCCCCTGCCTTGTCCCACAGGGAGGCAGAGCTCAGGCCCTCCATGGTCTCTTTGTCAATTTGTGACATGCATTCTCTCTTTTGTGTCATCTTGTGGGGGAGGGGATTAAACCAAAGGCCACCCTGACTTTGTTTTTGTGGACACACAATAAAAGCCCCGTTTATTTGT

6847/6881
FIGURE 6329A

CGGATCCGGGCGCCACCCCGCGGTTCATCGGTACCGGTGCTCTCAGGAACAGCAGCGCAACCTCTGCTCCCTG
CTCGCCTCCCGCGCGCCTAGGTGCCTGCGACTTTAATTAAAGGGCCGTCCCTCGCCGAGGCTGCAGCACCGCCC
CCCCGGCTTCTCGCGCCTCAAAATGAGTAGCTCCACTCTCGGGCGGGCCAGAGCGCAGCAGGCGCGGCTCCGGG
CGGGCGGCTCGACACGCGGGACGCCGAGATGCCGGCCACCGAGAAGGACCTGGCGGAGGACGCGCCGTGGAAGAA
GATCCAGCAGAACAACCTTTCACGCGCTGGTGCAACGAGCACCTGAAGTGCCTGAGCAAGCGCATGCCAACCTGCA
GACGGACCTGAGCGACGGGCTGCGGCTTATCGCGCTGTTGGAGGTGCTCAGCCAGAAGAAGATGCACCGCAAGCA
CAACCAGCGGCCCACTTTCCGCCAAATGCAGCTTGAGAACGTGTGCTGGCGCTCGAGTTCTTGACCGCGAGAG
CATCAAACCTGGTGTCCATCGACAGCAAGGCCATCGTGACGGGAACCTGAAGCTGATCCTGGGCCTCATCTGGAC
CCTGATCCTGCACTACTCCATCTCCATGCCCATGTGGGACGAGGAGGAGGATGAGGAGGCCAAGAAGCAGACCCC
CAAGCAGAGGCTCCTGGGCTGGATCCAGAACAAGTGCCGCGAGTGCCCATACCAACTTCAGCCGGGACTGGCA
GAGCGCGCGGGCCCTGGGCGCCCTGGTGGACAGCTGTGCCCCGGGCTGTGTCTGACTGGGACTCTTGGGACGC
CAGCAAGCCCGTTACCAATGCGCGAGAGGCCATGCAGCAGGCGGATGACTGGCTGGGCATCCCCAGGTGATCAC
CCCCGAGGAGATTGTGGACCCCAACGTGGACGAGCACTCTGTATGACCTACCTGTCCAGTTCCCCAAGGCCAA
GCTGAAGCCAGGGGCTCCCTTGCGGCCAAACTGAACCCGAAGAAAGCCCGTGCTACGGGCCAGGCATCGAGCC
CACAGGCAACATGGTGAAGAAGCGGGCAGAGTTCACTGTGGAGACCAGAAGTGCTGGCCAGGGAGAGGTGCTGGT
GTACGTGGAGGACCCGCGCGACACCAGGAGGAGGCAAAAGTGACCGCAATAACGACAAGAACCACCTTCTC
CGTCTGGTACGTCCCGAGGTGACGGGACTCATAAGGTTACTGTGCTCTTTGCTGGCCAGCACATCGCCAGAG
CCCCCTCGAGGTGTACGTGGATAAGTACAGGGTGACGCCAGCAAAGTGACAGCCCAAGGTCCCGGCTGGAGCC
CAGTGGCAACATCGCCACAAGACCCTACTTTGAGATCTTTACGGCAGGAGCTGGCACGGGCGAGGTGAGGT
TGTGATCCAGGACCCCATGGGACAGAAGGGCACGGTAGAGCCTCAGCTGGAGGCCCGGGGCGACAGCACATACCG
CTGCAGCTACCAGCCCACCATGGAGGGCGTCCACACCGTGACGTCACGTTTGCCGGCTGCCCATCCCTCGCAG
CCCCTACACTGTCTACTGTTGGCCAAGCCTGTAAACCCGAGTGCTGCCGGGCGGTTGGCCGGGGCTCCAGCCCA
GGGTGTGCGGGTGAAGGAGACAGCTGACTTCAAGGTGTACACAAAGGGCGCTGGCAGTGGGGAGCTGAAGGTAC
CGTGAAGGGCCCCAAGGGAGAGGAGCGCTGAAGCAGAAGGACCTGGGGGATGGCGTGTATGGCTTCGAGTATTA
CCCCATGGTCCCTGGAACCTATATCGTCACCATCACGTGGGGTGGTCAGAACATCGGGCGAGTCCCTTCGAAGT
GAAGGTGGGCACCGAGTGTGGCAATCAGAAGGTACGGGCTGGGGCCCTGGGCTGGAGGGCGCGTCTGTGGCA
GTCAGCAGACTTTGTGGTGGAGGCTATCGGGGACGAGCTGGGCACGCTGGGCTTCTCGGTGGAAGGGCCATCGCA
GGCTAAGATCGAATGTGACGACAAGGGCGACGGCTCCTGTGATGTGCGCTACTGGCCGAGGAGGCTGGCGAGTA
TGCCGTTACGCTGTGTGCAACAGCGAAGACATCCGCTCAGCCCCTTCATGGCTGACATCCGTGACGCGCCCCA
GGACTTCCACCCAGACAGGTGAAGGCACGTGGGCTGGATTGGAGAAGACAGGTGTGGCGTCAACAAGCCAGC
AGAGTTCACAGTGGATGCCAAGCACGGTGGCAAGGCCCCACTTCGGGTCCAAGTCCAGGACAATGAAGGCTGCC
TGTGGAGGCGTTGGTCAAGGACAACGGCAATGGCACTTACAGCTGCTCCTACGTGCCAGGAAGCCGGTGAAGCA
CACAGCCATGGTGTCTGGGGAGGCGTCAGCATCCCCAACAGCCCCTTCAGGTGAATGTGGGAGCTGGCAGCCA
CCCCAACAGGTCAAAGTATACGGCCCCGAGTAGCCAAGACAGGGCTCAAGGCCACGAGCCCACCTACTTCAC
TGTGGACTGCGCCGAGGCTGGCCAGGGGACGTGAGCATCGGCATCAAGTGTGCCCTGGAGTGGTAGGCCCGC
CGAAGCTGACATCGACTTCGACATCATCGCAATGACAATGACACCTTCACGGTCAAGTACAGCCCCGGGGGGC
TGGCAGCTACACATTATGGTCTCTTTGCTGACCAGGCCACGCCACCAGCCCCATCCGAGTCAAGGTGGAGCC
CTCTCATGACGCCAGTAAGGTGAAGGCCGAGGGCCCTGGCCTCAGTCGCACTGGTGTGAGCTTGGCAAGCCCAC
CCACTTCACAGTAAATGCCAAGCTGCTGGCAAAGGCAAGCTGGACGTCCAGTTCTCAGGACTACCAAGGGGGA
TGCAGTGCAGAGATGTGGACATCATCGACCACCATGACAACCTACACAGTCAAGTACAGCCTGTCCAGCAGG
TCCAGTAGGCGTCAATGTCACTTATGGAGGGGATCCCATCCCTAAGAGCCCTTTCTCAGTGGCAGTATCTCCAAG
CCTGGACCTCAGCAAGATCAAGGTGTCTGGCCTGGGAGAGAAGGTGGACGTTGGCAAAGACCAGGAGTTCACAGT
CAAATCAAAGGGTGCTGGTGGTCAAGGCAAAGTGCCATCCAAGATTGTGGGCCCTCGGGTGACGGGTGCCCTG
CAAGGTGGAGCCAGGCTGGGGGCTGACAACAGTGTGGTGGCTTCTGCCCCGTGAGGAAGGGCCCTATGAGGT
GGAGGTGACCTATGACGGCGTGCCCGTGCTGGCAGCCCCCTTCTCTGGAAGCTGTGGCCCCACCAAGCCTAG
CAAGGTGAAGGCGTTTGGGCCGGGGCTGCAGGGAGGAGTGCGGGCTCCCCCGCCGCTTACCATCGACACCAA
GGGCGCCGGCACAGGTGGCCTGGGCTGACGGTGGAGGGCCCCCTGTGAGGCGCAGCTCGAGTGCTTGGACAATGG
GGATGGCACATGTTCCGTGTCTACGTGCCCACCGAGCCCGGGGACTACAACATCAACATCCTCTTCGCTGACAC

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FIGURE 6329B

CCACATCCCTGGCTCCCCATTCAAGGCCACGTGGTTCCCTGCTTTGACGCATCCAAAGTCAAGTGCTCAGGCC
CGGGCTGGAGCGGGCCACCGCTGGGGAGGTGGGCCAATTCCAAGTGGAAGTCTGAGCGCGGGCAGCGCGGAGCT
GACCATTGAGATCTGCTCGGAGGCGGGGCTTCCGGCCGAGGTGTACATCCAGGACCACGGTGATGGCACGCACAC
CATTACCTACATTCCCTCTGCCCCGGGGCCTACACCGTCAACATCAAGTACGGCGGCCAGCCCGTGCCAACTT
CCCCAGCAAGCTGCAGGTGGAACCTGCGGTGGACACTTCCGGTGTCCAGTGCTATGGGCCTGGTATTGAGGGCCA
GGGTGTCTTCCGTGAGGCCACCACTGAGTTAGTGTGGACGCCCCGGGCTCTGACACAGACCGGAGGGCCGCACGT
CAAGGCCCGTGTGGCCAACCCCTCAGGCAACCTGACGGAGACCTACGTTCAGGACCGTGCGATGGCATGTACAA
AGTGGAGTACACGCCTTACGAGGAGGACTGCACTCCGTGGACGTGACCTATGACGGCAGTCCCGTGCCACAGCAG
CCCCCTCCAGGTGCCGTGACCGAGGGCTGCGACCCCTCCCGGGTGCCTGTCCACGGGCCAGGCATCCAAAGTGG
CACCACCAACAAGCCCAACAAGTTCACTGTGGAGACCAGGGGAGCTGGCACGGGCGGCCTGGGCCTGGCTGTAGA
GGGCCCCCTCCGAGGCAAGATGTCTGTCATGGATAACAAGGACGGCAGCTGCTCGGTTCGAGTACATCCCTTATGA
GGCTGGCACCTACAGCCTCAACGTCACTATGGTGGCCATCAAGTGCCAGGCAGTCCCTTCAAGGTCCCTGTGCA
TGATGTGACAGATGCGTCCAAGGTCAAGTGCTCTGGGCCGGCCTGAGCCAGGCATGGTTCGTGCCAACCTCCC
TCAGTCCCTCCAGGTGGACACAAGCAAGGCTGGTGTGGCCCCATTGACAGGTCAAAGTGCAAGGGCCCCAAAGGCCT
GGTGGAGCCAGTGGACGTGGTAGACAACGCTGATGGCACCCAGACCGTCAATTATGTGCCAGCCGAGAAGGGCC
CTACAGCATCTCAGTACTGTATGGAGATGAAGAGGTACCCCGAGCCCTTCAAGGTCAAGGTGCTGCCTACTCA
TGATGCCAGCAAGGTGAAGGCCAGTGGCCCCGGGCTCAACACCACTGGCGTGCCTGCCAGCCTGCCCGTGGAGTT
CACCATCGATGCAAAGGACGCGGGGAGGGCCTGCTGGCTGTCCAGATCACGGATCCCGAAGGCAAGCCGAAGAA
GACACACATCCAAGACAACCATGACGGCAGTATACAGTGGCCTACGTGCCAGACGTGACAGGTGCGTACACCAT
CCTCATCAAGTACGGTGGTACGAGATCCCTTCTCCCGTACCGCGTGCCTGCCGTGCCACCGGGGACGCCAG
CAAGTGCACTGTACAGGTGCTGGCATCGCCCCACCATTCAAGATTGGGGAGGAGACGGTGATCACTGTGGACAC
TAAGGCGGCAGGCAAAGGCAAAGTGACGTGCACCGTGTGCACGCGCTGATGGCTCAGAGGTGGATGTGGACGTGGT
GGAGAATGAGGACGGCACTTTCGACATCTTCTACACGGCCCCCAGCCGGGCAAATACGTCACTGTGTGCGCTT
TGGTGGCGAGCACGTGCCAACAGCCCCCTTCCAAGTGACGGCTCTGGCTGGGGACCAGCCCTCGGTGCAGCCCCC
TCTACGGTCTCAGCAGCTGGCCCCACAGTACACCTACGCCCAGGGCGGCCAGCAGACTTGGGCCCCGGAGAGGCC
CCTGGTGGGTGTCAATGGGCTGGATGTGACCAGCCTGAGGCCCTTTGACCTTGTCATCCCTTCAACCATCAAGAA
GGGCGAGATCACAGGGGAGGTTTCGGATGCCCTCAGGCAAGGTGGCGCAGCCACCATCACTGACAACAAAGACGG
CACCCTGACCGTGCCTGATGCACCCAGCGAGGCTGGCCTGCACGAGATGGACATCCGCTATGACAACATGCACAT
CCCAGGAAGCCCCCTTGAGTTCTATGTGGATTACGTCAACTGTGGCCATGTCACTGCCTATGGGCCTGGCCTCAC
CCATGGAGTAGTGAACAAGCCTGCCACCTTCAACCGTCAACACCAAGGATGCAGGAGAGGGGGGCTGTCTCTGGC
CATTGAGGGCCCCGTCAAAGCAGAAATCAGCTGCACTGACAACCAGGATGGGACATGCAGCGTGTCTACCTGCC
TGIGCTGCCGGGGGACTACAGCATTCTAGTCAAGTACAATGAACAGCACGTCCCAGGCAGCCCTTCACTGCTCG
GGTCACAGGTGACGACTCCATGCGTATGTCCACCTAAAGGTGGGCTCTGCTGCCGACATCCCATCAACATCTC
AGAGACGGATCTCAGCCTGTGACGGCCACTGTGGTCCCGCCCTCGGGCCGGGAGGAGCCCTGTTTGTGAAGCG
GCTGCGTAATGGCCACGTGGGGATTTCATTCTGCCCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAAAA
TGGCCAGCACGTGGCCAGCAGCCCCATCCCGGTGGTGTACAGCAGTCCGAAATTGGGGATGCCAGTCCGTGTTCCG
GGTCTCTGGTCAGGGCCTTCAAGAGGCCACACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGG
CTATGGTGGGCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCTGGAGGACGGGAC
GTGCAGGGTCACCTACTGCCCCACAGAGCCAGGCAACTACATCATCAACATCAAGTTTGCCGACCAGCACGTGCC
TGGCAGCCCCCTTCTGTGTGAAGGTGACAGGCGAGGGCCGGGTGAAAGAGAGCATACCCGACGGCGTCCGGCTCC
TTCAGTGGCCAAAGTGGTAGTCAATTGTGACCTCAGCCTGAAATCCCTGAAATTAGCATCCAGGATATGACAGC
CCAGGTGACCAGCCCATCGGGCAAGACCCATGAGGCCGAGATCGTGAAGGGGAGAACACACCTACTGCATCCG
CTTTGTTCCCGCTGAGATGGGCACACACAGTCAAGGTGAAATCCCTGAAATTAGCATCCAGGATATGACAGC
CCAAGTTCACCGTGGGGCCCCCTAGGGGAAGGGGAGCCCAAGGTCCGAGCTGGGGGCCCTGGCCTGGAGAGAGC
TGAAGCTGGAGTGCCAGCCGAATTCAGTATCTGGACCCGGGAAGCTGGTGTGAGGCGCTGGCCATTGCTGTGCA
GGGCCCCAGCAAGGCTGAGATCTCTTTGAGGACCGCAAGGACGGCTCCTGTGGTGTGGCTTATGTGGTCCAGGA
GCCAGGTGACTACGAAGTCTCAGTCAAGTTCAACGAGGAACACATTCCCGACAGCCCTTCGTGGTGCTGTGGC
TTCTCCGTCTGGCGACGCGCGCCGCTCACTGTTTCTAGCCTTCAGGAGTACGGCTAAAGGTCAACACGCCAGC

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FIGURE 6282

CAGGAGGAGACAGCCTCCCGGCCCGGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGAC
GGTCCGTTTCTGCCGTCAGCTGCCGGCCGAGTTGGGTCTCCGTGGTTCAGGCCGGCTCCCCCTTCTGGTCTCC
CTTCTCCCGCTGGGCCGGTTTATCGGGAGGAGATTGTCTTCCAGGGCTAGCAATTGGACTTTTGATGATGTTTGA
CCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCCTCTGTTTCTTCTCTCGTGTAATCGCA
AAACCCATTTTGGAGCAGGAATTCCAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAGA
AATCCCAGGCAGGAACACCTTTTGTGTGATGGCCGCGTCATGATGGCCCGGCAAAAGGGCATTCTTCTACCTGA
CCCTTTTCTCATCTCGGGACATGTACTCTTCTTCGCTTTGAGTGCCGCTACCTGGCTGTTTCTAGCTGTCTC
CTGCCATCCCTGTATTTGCTGCCATGTCTTCTTTTCTCCATGGCTACTGTTGAGGACCAGCTTCAGTGACC
CTGGAGTGATTCTCGGGCGCTACCAGATGAAGCAGCTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCGG
TGCCCCAGGGCCAGCGACCACCGCTCGTATCAAGAATTCCAGATAAACAACCAGATTGTGAAACTGAAATACT
GTTACACATGCAAGATCTTCCGGCCTCCCGGGCCTCCCATTCAGCATCTGTGACAACGTGTGTGGAGCGCTTCG
ACCATCACTGCCCCCTGGGTGGGGAATTGTGTGGAAAGAGGAACTACCGCTACTTCTACCTCTTCATCCTTTCTC
TCTCCCTCCTCACAATCTATGTCTTCGCCTTCAACATCGTCTATGTGGCCCTCAAATCTTTGAAAATTGGCTTCT
TGGAGACATTGAAAGAACTCCTGGAAGTGTCTAGAAAGTCTCATTGCTTCTTTACACTCTGGTCCGTCGTGG
GACTGACTGGATTTTCACTTTCTCTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACAG
GGAAGAATCGCGTCCAGAAATCCCTACAGCCATGGCAATATTGTGAAGAAGTGTGTGAAGTGTGTGTGGCCCT
TGCCCCCAGTGTGCTGGATCGAAGGGGTATTTGCCACTGGAGGAAAGTGGAACTCGACCTCCAGTACTCAAG
AGACCAGTAGCAGCCTCTTGCCACAGAGCCAGCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGACA
GCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAGTAGC
CTATCTATGGAAGAGACTTTTGTGTTTAAATTAGGGCTATGAGAGATTTAGGTGAGAAGTTAAACCTGAGA
CAGAGAGCAAGTAAGCTGTCCCTTTTAACTGTTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGCATTTTC
TTGCTGCAAGCTTTTTTAAATTTCTGAACCTCAAGGCAGTGGCAGAAGATGTCAGTCACCTCTGATAACTGGAAAA
ATGGGTCTCTTGGGCCCTGGCACTGGT

6800/6881
FIGURE 6283

LFLLSCNRKTHFGAGIPIMSVMVVRKKVTRKWEKLPGRNTFCCDGRVMMARQKGIFYLTFLILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPQGQRPPPRIKNFQIN
NQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHCPWVGNCVGKRNYRYFYLFILSLSLTIYVFAFNIVYVA
LKSLKIGFLETLKETPGTVLEVLCFFTLWSVVGLTGFHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPEPPEPPQ
EAAEAEK

6801/6881
FIGURE 6284

TGCTTTCTTCGGCTTCCGTTCTTGGTCCATGTGAGAGAAGCTGGCTGCTGAAATGACTGCGAACCGGCTTGCAAG
AGAGCCTTCTGGCTTTGAGCCAACAGGAAGAAGCTAGCGGATTTGCCAAAAGACTACCTCTTGAGTGAGAGTGAAG
ATGAGGGGGACAATGATGGAGAGAGAAAGCATCAAAGCTTCTGGAAGCAATCAGTTCCTTGATGGAAGAATA
GGCGGAAATTGGCTGAGAGGTCTGAGGCTAGTCTGAAGGTGTCAGAGTTCAATGTCAGTTCTGAAGGATCAGGAG
AAAAGCTGGTCTTGAGATCTGCTTGAGCCTGTAAAACCTTCATCTTCTTTGGCCACTGTGAAAAAGCAACTGA
GTAGAGTCAAATCAAAGAAGACAGTGGAGTTACCTCTGAACAAAGAAGAGATTGAACGGATCCACAGAGAAGTAG
CATTCAATAAAAACCGCACAAAGTCTCTCAAATGGGACCCTGTCTGCTGCTGAAGAACCGGCAGGCAGAGCAGCTGG
TTTTTCCCCTGGAGAAAGAGGAGCCAGCCATTGCTCCCATTTGAACATGTGCTCAGTGGCTGGAAGGCAAGAACTC
CCCTGGAGCAGGAAATTTTCAACCTCTCCATAAGAACAAGCAGCCAGTGACAGACCCTTTACTGACCCTGTGG
AAAAGGCCTCTCTCCGAGCCATGAGCCTAGAAGAGGCAAAGATGCGACGAGCAGAGCTTCAGAGGGCTCGGGCTC
TGCAGTCTACTATGAGGCCAAGGCTCGAAGAGAGAAGAAAATCAAAGTAAAAAGTATCACAAAGTCGTGAAGA
AAGGAAAGGCCAAGAAAGCCCTAAAAGAGTTTGAAGAGCTGCGGAAGGTTAATCCAGCTGCAGCACTAGAAGAAC
TGGAATAAATTGAAAAGGCCAGAATGATGGAAGAATGAGCCTTAAGCACCAAAACAGTGGGAAATGGGCCAAGT
CAAAGGCAATTATGGCCAAATATGACCTGGAGGCTCGCCAAGCTATGCAGGAACAGTTGTCTAAGAACAAGAAC
TGACACAGAACTCCAGGTAGCCTCTGAGAGTGAGGAAGAGGAGGGAGGCACAGAAGATGTGGAAGAATCCTTG
TCCCTGATGTAGTGAATGAAGTGCAGATGAATGCAGATGGGCCGAATCCCTGGATGCTCAGGAGCTGCACCAGTG
ACACCAAGAGGCTGCAACCCAGGAGGACCCTGAGCAACTGCCAGAGCTTGAGGCCCATGGAGTTTCTGAAAGTG
AGGGAGAAGAAAGACCAGTGGCAGAAGAAGAAATTTGTGAGAGAATTTGAGGAAAGGCCATCCCTTAGAAAAA
GATCTGAGCTCAGCCAAGATGCTGAGCCAGCAGGCAGTCAAGAAACAAAAGATTCTGGCAGCCAGGAGGTGCTGT
CTGAATTGAGAGTACTATCTCAGAAATTGAAGGAAAACCATCAGTCCAGGAAGCAAAAAGCAAGTTTCAAGGGGA
CTATTCCCCAGGTCCAGAGAGAGGAACCTGCCCCAGAAGAAGAGGAGCCCCTGTTGCTACAGAGACCAGAGAGAG
TACAGACGCTGGAAGAGCTAGAAGAGCTGGGAAAAGAAGAATGTTTTCAAAATAAGGAGCTTCCAGACCTGTGT
TAGAAGGGCAGCAGTCAGAGAGGACCCCAAATAATCGCCCTGATGCCCTAAGGAGAAGAAAAAGAAGGAGCAAA
TGATCGACCTACAGAACCTCCTAACCACACAATCTCCCTCCGTGAAGTCTTTGGCAGTTCCCACAATAGAGGAGC
TGGAAGATGAAGAGGAGAGAAACCATAGGCAGATGATAAAGGAAGCTTTTGCTGGGGATGATGTATCAGAGATT
TCTTGAAAGAGAAGAGGGAAGCTGTGGAGGCGAGTAAGCCAAAGGACGTGGACCTGACACTACCTGGCTGGGGCG
AGTGGGGTGGTGTGGCCCTAAAGCCCAGTGCCAAGAAAAGACGCCGGTTTCTCATTAAAGCCCCTGAGGGTCTC
CAAGAAAAGATAAGAATTTGCCAAATGTGATTATCAATGAGAAGCGCAACATCCACGCAGCTGCTCATCAGGTAC
GAGTGCTTCCATATCCATTTACCCACCATTTGGCAATTTGAAAGGACCATCCAGACCCCATAGGATCCACATGGA
ACACCCAGAGGGCTTTCCAAAAGCTGACTACTCCAAGGTGCTCACCAGCCAGGCCATATCATTAAACCCATAA
AAGCAGAAGACGTGGGCTACCGGTCTTCTCAAGGTCGGACCTGTCTGTCATACAGAGGAATCCAAAACGAATCA
CCACACGTACAAAAAACAGCTGAAGAAATGCTCTGTAGATTGAGTTGCTGGAGGAGTGACAGCCAGGAGCCCTG
ACTTCACTTCTTTGGTCCAGTTTTACTCTGATACAGGGTGGATTCCAAAACCTGGCTCAGTACATTGCATGTAGT
TAAGCCACATTTTAAAAATAAAGGCATTTTTTAATCT

6802/6881
FIGURE 6285

AGAGGAAAGGGAAGGAGGAGGTCCCGAATAGCGGTGCGCGAAATGTTCCGGTGTGGAGGCCTGGCGGCGGGTGCT
TTGAAGCAGAAGCTGGTGCCCTTGGTGCGGACCGTGTGCGTCCGAAGCCCGAGGCAGAGGAACCGGCTCCAGGC
AACTTGTTCCAGCGATGGCATGTTCTCTAGAACTCCAGATGACAAGACAAATGGCTAGCTCTGGTGCATCAGGG
GGCAAAATCGATAATTCTGTGTTAGTCCTTATTGTGGGCTTATCAACAGTAGGAGCTGGTGCCTATGCCTACAAG
ACTATGAAAGAGGACGAAAAAGATACAATGAAAGAATTTAGGGTTAGGGCTGACACCAGAACAGAAACAGAAA
AAGGCCGCGTTATCTGCTTCAGAAGGAGAGGAAGTTCCTCAAGACAAGGCGCCAAGTCATGTTCTTTCTTGCTA
ATTGGTGGAGGCACAGCTGCTTTTGTCTGCAGCCAGATCCATCCGGGCTCGGGATCCTGGGGCCAGGGTACTGATT
GTATCTGAAGATCCTGAGCTGCCGTACATGCGACCTCTCTTTCAAAGAAGTGTGGTTTTTCAGATGACCCAAAT
GTCACAAAGACACTGCGATTCAAACAGTGGAATGGAAAAGAGAGAAGCATATATTTCCAGCCACCTTCTTTCTAT
GTCTCTGCTCAGGACCTGCCTCATATTGAGAATGGTGGTGTGGCTGTCTCACTGGGAAGAAGGTAGTACAGCTG
GATGTGAGAGACAACATGGTGAACTTAATGATGGCTCTCAAATAACCTATGAAAAGTGCTTGATTGCAACAGGA
GGTACTCCAAGAAGTCTGTCTGCCATTGATAGGGCTGGAGCAGAGGTGAAGAGTAGAACAAACGCTTTTCAGAAA
ATTGGAGACTTTAGAAAGCTTGGAGAAGATTTACGGGAAGTCAAATCAATTACGATTATCGGTGGGGGCTTCCTT
GGTAGCGAACTGGCCTGTGCTCTTGGCAGAAAGGCTCGAGCCTTGGGCACAGAAAGTGATTCAACTCTTCCCCGAG
AAAGGAAATATGGGAAAGATCCTCCCGAATACCTCAGCAACTGGACCATGGAAAAAGTCAGACGAGAGGGGGTT
AAGGTGATGCCCCAATGCTATTGTGCAATCCGTTGGAGTCAGCAGTGGCAAGTTACTTATCAAGCTGAAAGACGGC
AGGAAGGTAGAACTGACCACATAGTGGCAGCTGTGGGCTGGAGCCCAATGTTGAGTTGGCCAAGACTGGTGGC
CTGGAAATAGACTCAGATTTTGGTGGCTTCCGGGTAAATGCAGAGCTACAAGCACGCTCTAACATCTGGGTGGCA
GGAGATGCTGCATGCTTCTACGATATAAAGTTGGGAAGGAGGCGGGTAGAGCACCATGATCACGCTGTTGTGAGT
GGAAGATTGGCTGGAGAAAATATGACTGGAGCTGCTAAGCCGTACTGGCATCAGTCAATGTTCTGGAGTGATTG
GGCCCCGATGTTGGCTATGAAGCTATTGGTCTTGTGGACAGTAGTTTGCCACAGTTGGTGTTTTTGCAAAAGCA
ACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAAGTGGTATCCGATCAGAGAGTGAGACAGAGTCC
GAGGCCTCAGAAATTACTATTCTCCAGCACCCCGGAGTTCCACAGGCTCCCGTCCAGGGGGAGGACTACGGC
AAAGGTGTCATCTTCTACCTCAGGGACAAAGTGGTCTGTTGGGATTGTGCTATGGAACATCTTTAACCGAATGCCA
ATAGCAAGGAAGATCATTAAGGACGGTGAGCAGCATGAAGATCTCAATGAAGTAGCCAAACTATTCAACATTAT
GAAGACTGAAGCCCCACAGTGAATTGGCAA

6803/6881
FIGURE 6286

MFRCGGLAAGALKQKLVLVVRTVCVRSPQRNRPLPGNLFQRWHVPLELQMTROMASSGASGGKIDNSVLVLIVGL
STVGAGAYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLLIGGGTAAFAAARSI
RARDPGARVLIVSEDPELPYMRPPLSKELWFSDDPNVTKTLRFKQWNGKERSIYFQPPSFYVSAQDLPHIENGGV
AVLTGKKVQLDVRDNMVKLNDGSQITYEKCLIATGGTPRSLSAIDRAGAEVKSRTTLFRKIGDFRSLEKISREV
KSITIIIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTMEKVRREGVKVMPNAIVQSVGVS
SGKLLIKLDGRKVVETDHIVAAGLEPNVELAKTGGLIDSDFGGFRVNAELQARSNIWVAGDAACFYDIKLGRR
RVEHHDHAVVSGRLAGENMTGAAKPYWHQSMFWSDLGPDVGYEIIGLVDSSLPTVGVFAKATAQDNPKSATEQSG
TGIRSESETESEASEITIPPSTPAVPQAPVQGEDYCKGVIFYLRDKVVVGIVLWNIFNRMPIARKIIKDGEQHED
LNEVAKLFNIHED

6804/6881

FIGURE-6287

CCCTCCCCTGCCTGCATTCCCGGGACGGACCCGAGGGAAGAAGCCTCAGGAGGAGGGTGTGGGCCGAGGCGCGGC
GGCGGCTGGAGCAGCGCGGTAGGGTCCTTCGCCAGAGCATCCGGTCCGAGGGCGCACACAGGCAGAAGGCTCGGG
GCTCGTCCACTCTCCTCCCTCTCTCCTCCTCTCCCTGGCTTTGTGTTGGTGCCTCCGAGCTGCAAGGAGGGTGCG
CTGGAGGAGGAGGAGGGGGGCCCCGAGTGAGAGGCACCCCTTCACGCGCGCGCGCGCACACGGTGCCGGCGCAC
GCACACACGGGCGGACACACACACACGCGCGCACACACACACGACAGAGCTCGCTCGCCTCGAGCGCACGAACG
TGGACGTTCTCTTTGTGTGGAGCCCTCAAGGGGGGTGGGGCCCCGGTTCGGTCCGGGGGAGATGGCGCAGCCCA
TCCTGGGCCATGGGAGCCTGCAGCCCGCCTCGGCCGCTGGCCTGGCGTCCCTGGAGCTCGACTCGTCGCTGGACC
AGTACGTGCAGATTGCATCTTCAAAATAATCGTGATTGGGGACTCCAACGTGGGCAAGACCTGCCTGACCTTCC
GCTTCTGCGGGGGTACCTTCCCAGACAAGACTGAAGCCACCATCGGCGTGGACTTCAGGGAGAAGACCGTGGA
TCGAGGGCGAGAAGATCAAGGTTCAAGGTGTGGGACACAGCAGGTCAGGAACGTTTCCGCAAAAGCATGGTCGAGC
ATTACTACCGCAACGTACATGCCGTGGTCTTCGTCTATGACGTCACCAAGATGACATCTTTCACCAACCTCAAAA
TGTGGATCCAAGAAATGCAATGGGCATGCTGTGCCCCACTAGTCCCCAAAGTGCTTGTGGGCAACAAGTGTGACT
TGAGGGAACAGATCCAGGTGCCCTCCAACCTAGCCCTGAAATTTGCTGATGCCCACAACATGCTCTTGTGTTGAGA
CATCGGCCAAGGACCCCAAAGAGAGCCAGAACGTGGAGTCGATTTTCATGTGCTTGGCTTGCCGATTGAAGGCC
AGAAATCCCTGCTGTATCGTGATGCTGAGAGGCAGCAGGGGAAGGTGCAGAACTGGAGTTCCACAGGAAGCTA
ACAGTAAACTTCTGTCTTGTGTGAACCAACGATATAAATACAAGATAAATTATCACTGGAGTTTTTTCTTT
CCCTTTTTTCTGTGCCTGCATAATGCTGACACCTGCTTGTTCATACAATTGATATCAAAATAAAATTTGTAT
AGATTATC

6805/6881
FIGURE 6288

MAQPILGHGSLQPASAAGLASLELDSSLDQYVQIRIFKIIIVIGDSNVGKTCLTFRFCGGTFDPDKTEATIGVDFRE
KTVEIEGEKIKVQVWDITAGQERFRKSMVEHYRNVHAVVFVYDVTKMTSFTNLKMWIQECNGHAVPPLVPKVLVG
NKCDLREQIQVPSNLALKFADAHNMLLFETSAKDPKESQNVESIFMCLACRLKAQKSLLYRDAERQQGKVQKLEF
PQEANSKTSCPC

6806/6881
FIGURE 6289

GCCCCACCCCTCGACATGCGCTTCCGGCGACGCCTTAGCGCTGACCCCCACGCAACCCAGCGAAACTCCGCGGAG
CGCGCGCGGCACGATGGACGGTCGGGTGCAGCTGATGAAGGCCCTCCTGGCCGGGCCCCCTCCGGCCCGCGGCGCG
TCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGTTTGACGGAGATACCGACCGACTCCCGGAGTTTCATCGTGCA
GACGAGCTCCTACATGTTTCGTGGACGAGAACACGTTCTCCAACGACGCCCTGAAGGTGCAAGCTGGGGCTCCTGTT
ACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCAACTACATC
ATTCTGCCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCACAGACTGTGGCTCCTAGTG
ATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCTGGACAGTGATCCAGACAGCTGGCCGTCCCCCA
AGGAGCCTGTACCTTCAGCGAGACCCATTTCCTCCCCATCCCCAGAGACCTCTTGTTCTCCTGCCACATAGCTG
CCAGGGCTTAAGTGTGCCTGGCAACCAATCGAATCTCTCATTTTCTCCTGTGGACCAGTTAGTTTGCCTAGAA
TCCTGTTTTCTTCTGAATTTGCAGCTGTCTCTCTGATGGGTGCCTTTTGTTCACACAGTAAGCCCTGCTCCCTT
CCCTGCTCTAATACTACCTGTACAAAGGTTTTTCCTTATTTTAAATAAATGTCAGACACTATT

6807/6881
FIGURE 6290

MHIWTLSTSGASWAPVTYWDHPQLLPHTLHSSRLPANYIILPTDLRYHCHRPPHLTNRLWLLVMWTHLGGI
RAGHSPWTIVIQTAGRPRLSPSARPISSPSPETSCVPAT

6808/6881
FIGURE 6291

TGAAGGCCCTCCTGGCCGGGCCCCCTCCGGCCCGCGCGCTCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGT
TTGACGGAGATACCGACCGACTCCCGGAGTTCATCGTGCAGACGAGTCCTACATGTTCGTGGACGAGAACACGT
TCTCCAACGACGCCCTGAAGCCCAGCCCCCTCCATGCACATTTGGACGCTGTCCTGCACTTCAGGTGCAAGCTGGG
CTCCTGTTACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCACCTCCACTCCTCCAGACTGCCAGCCA
ACTACATCATTCTGCCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGC
TCCTAGTGATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCCTGGACAGTGATCCAGACAGCTGGCC
GTCCCCCAAGGAGCCTGTCACCTTCAGCGAGACCCATTTCTCCCCATCCCCAGAGACCTCTTGTTCTCTGCCA
CATAGCTGCCAGGGCTTAAGTGTGCCTGGCAACCAAATCGAATCTCTC

6809/6881
FIGURE 6292

MFVDENTFSNDALKPSPSMHIWTL SCTSGASWAPVTYWDHPQPLP THLHSSRLPANYIILPTDLRYHCHRHPP
HLTNRLWLLVMWTHLGGIRAGHSPWTVIQTAGRPPRSLSPSARPISSPSPETSCVPAT

6810/6881
FIGURE 6293

CGGCACGAGGACAGAATCAGGTGATGGTCCAGAATTAAGAGCTGTCACCTGTGTCATTCACTCACAATGGAAGAA
ATGAAGAAGACTGCCATCCGGCTGCCCCAAGGCCAAACAGAAGCCTATAAAGACGGAATGGAATTCCCGGTGTGTC
CTTTTCACCTACTTCCAAGGGGACATCAGCAGCGTAGTGATGAACACTTCTCCAGAGCTCTGAGCAATATCAAG
AGCCCCCAGGAATTGACCCCTCGAGTCAGAGTGAAGGTGTGATGCTGAAAAACGATGATAGCATGTCTCCAAAT
CAGTGGCGTTACTCGTCTCCATGGACAAAGCCACAACCAGAAGTACCTGTCACAAACCGTGCCGCCAACTGCAAC
TTGCATGTGCCTGGTCCCATGGCTGTGAATCAGTTCTCACCGTCCCTGGCTAGGAGGGCCTCTGTTTCGGCCTGGG
GAGCTGTGGCATTCTCCTCCCTGGCGGGCACCAGCTCCTTAGAGCCTGGCTACTCTCATCCCTTCCCCGCTCGG
CACCTGGTTCCAGAGCCCCAGCCTGATGGGAAACGTGAGCCTCTCCTAAGTCTCCTCCAGCAAGACAGATGCCTA
GCCCCGTCTCAGGAATCTGCCGCCAGGGAGAATGGCAACCCTGGCCAGATAGCTGGAAGCACAGGGTTGCTCTTC
AACCTGCCTCCCGGCTCAGTTCACCTATAAGAACTATATGTATCTCGTGGATCTGCCAGTACCAGCCTTCCAAAT
GAAACTCTTTTCAGAGTTAGAGACACCTGGGAAATACTCACTTACACCACCAAAACCACTGGGGCCACCCACATCGA
TACCTGCAGCATCTTTAGTCAAGTTGGAGGAGAAAGACAACACTTGGTCTAAGACACGGCAGCAAGACATCCCTG
CATATTGTTCCAGATAAAAATGAAAGCTGCTCACACCCACTTGCCCTCCCCAATCTGTAAACAGCTTCGTGTCTA
GTATGAGCTCAGTACTTGCCCTGTGAAAATCCCAGAAGCCCCCGCTGTCAATGTTCCCATCCACACCCTGCTTG
CTCCTGTGTAACAGCTCAGATGATGAATAATAATAAACTGTACTTTTTTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6329C

CTCTTTTGCAGTCAGCCTGAACGGGGCCAAAGGGGGCGATCGATGCCAAGGTGCACAGCCCCTCAGGAGCCCTGGA
GGAGTGCTATGTCACAGAAATTGACCAAGATAAGTATGCTGTGCGCTTCATCCCTCGGGAGAATGGCGTTTACCT
GATTGACGTCAAGTTCAACGGCACCCACATCCCTGGAAGCCCCTTCAAGATCCGAGTTGGGGAGCCTGGGCATGG
AGGGGACCCAGGCTTGGTGTCTGCTTACGGAGCAGGTCTGGAAGGCGGTGTACAGGGAACCCAGCTGAGTTCTGT
CGTGAACACGAGCAATGCGGGAGCTGGTGCCCTGTGCGGTGACCATTTGACGGCCCCCTCCAAGGTGAAGATGGATTG
CCAGGAGTGCCCTGAGGGCTACCGCGTCACCTATACCCCCATGGCACCTGGCAGCTACCTCATCTCCATCAAGTA
CGGGGGCCCCCTACCACATTGGGGGCAGCCCCCTTCAAGGCCAAAGTCACAGGCCCCCGTCTCGTCAGCAACCACAG
CCTCCACGAGACATCATCAGTGTGTTGTAGACTCTCTGACCAAGGCCACCTGTGCCCCCAGCATGGGGCCCCGGG
TCCTGGGCCTGCTGACGCCAGCAAGGTGGTGGCCAAGGGCCTGGGGCTGAGCAAGGCCTACGTAGGCCAGAAGAG
CAGCTTCACAGTAGACTGCAGCAAAGCAGGCAACAACATGCTGCTGGTGGGGGTTTCAAGGCCAAGGACCCCTG
CGAGGAGATCCTGGTGAAGCACGTGGGCAGCCGGCTCTACAGCGTGTCTTACCTGCTCAAGGACAAGGGGGAGTA
CACACTGGTGGTCAAATGGGGGGACGAGCACATCCAGGCAGCCCCCTACCGCGTTGTGGTGCCCTGAGTCTGGGG
CCCGTGCCAGCCGGCAGCCCCCAAGCCTGCCCCGCTACCCAAGCAGCCCCCGCCCTCTTCCCCCTCAACCCGGCCC
AGGCCGCCCTGGCCGCCCGCCTGTACTGCAGCCGCCCTGCCCTGTGCCGTGCTGCGCTCACCTGCCTCCCCAG
CCAGCCGCTGACCTCTCGGCTTTCACCTTGGGCAGAGGGAGCCATTGGTGGCGCTGCTTGTCTTCTTTGGTTCTG
GGAGGGGTGAGGGATGGGGTCTGTACACAACCACCCACTAGTTCTCTTCTCCAGCCAAGAGGAATAAAGTTTT
GCTTCCATT

FIGURE 6330A

[illegible]

GGGATCCCATCTTTTTAACTCTGTTTCAGGAAGTCTTATCTAGCTGCATATCTTCATCATATTGGTATATCTCT
TTCTGTGTTTACAGAGATGCTCTTTATATCTAATCTGTCCAAGTACCTTATCAAAGTAGCAAATGAG
ACAGCAGTCTTATGCTTCCAGAAACACCCACAGGCATGTCCCATGTGAGCTGCTGCCATGAAGTGTCAAGTGTGT
GTTGTCTTGTGTATTTTTCAGTTATGTGCCCTGGCTTCTTACTATGGTGTAAATCATGAAGGAGTGAAACATCATAG
AACTGTCTAGCACTTCCCTTGCCAGTCTTTAGTGATCAGGAACCATAGTTGACAGTTCCAATCAGTAGCTTAAGA
AAAAACCGTGTGTGTCTCTTCTGGAATGGTTAGAAGTGAGGGAGTTTGCCCGCTTCTGTTTGTAGAGTCTCATAG
TTGGACTTTCTAGCATATATGTGTCCATTTCTTATGCTGTAAAAGCAAGTCTGCAACCAAACCTCCCATCAGCC
CAATCCCTGATCCCTGATCCCTTCCACCTGCTCTGCTGATGACCCCCCAGCTTCACTTCTGACTCTTCCCCAGG
AAGGGAAGGGGGGTCAGAAGAGAGGGTGAGTCTCCAGAAGTCTTCTCCAAGGACAGAAGGCTCTGCCCCCAT
AGTGGCCTCGAACTCCTGGCACTACCAAAGGACACTTATCCACGAGAGCGCAGCATCCGACCAGGTTGTCACTGA
GAAGATGTTTATTTTGGTCAAGTTGGGTTTTTATGTATTATACTTAGTCAAATGTAATGTGGCTTCTGGAATCAAT
GTCCAGAGCTGCTTCCCCGTACCTGGGCGTCACTGTGCTGTTAGAGGAGTGCCTGGCCACCAGGCCCCCC
TGTCACCCATGACAGTTCATTACAGGGCCGATGGGGCAGTCGTGGTTGGGAACACAGCATTCAAGCGTCACTTTA
TTTCATTGGGGCCCCACCTGCAGTCCCTCAAAGAGGCAGTTGCCAGCCTCTTTCCCTTCCAGTTTATTCCAGA
GCTGCCAGTGGGGCTGAGGCTCCTTAGGGTTTTCTCTCTATTTCCCCCTTCTTCCCTCATTCCTCGTCTTTCC
CAAAGGCATCACGAGTCAGTCGCCTTTACGAGGCAGCCTTGCGGTTTATCGCCCTGGCAGGCAGGGGGCCCTGC
AGCTCTCATGTCTGCCCTGCCTTGGGGTCAGGTTGACAGGAGGTTGGAGGGAAAGCCTTAAGCTGCAGGATTCTC
ACCAGCTGTGTCCGGCCAGTTTTGGGGTGTGACCTCAATTTCAATTTTGTCTGTACTTGAACATTATGAAGATG
GGGGCTCTTTTCAAGTGAATTTGTGAACAGCAGAATTGACCGACAGCTTTCCAGTACCCATGGGGCTAGGTCAATTA
AGGCCACATCCACAGTCTCCCCCACCCTTGTTCCAGTTGTTAGTTACTACCTCCTCTCCTGACAATACTGTATGT
CGTCGAGCTCCCCCAGGTCTACCCCTCCCGGCCCTGCCTGCTGGTGGGCTTGTCTAGCCAGTGGGATTGCCGG
TCTTGACAGCTCAGTGAGCTGGAGATACITGGTCACAGCCAGGCGCTAGCACAGCTCCCTTCTGTTGATGCTGTA
TTCCCATATCAAAGACACAGGGGACACCCAGAAACGCCACATCCCCCAATCCATCAGTGCCAAACTAGCCAACG
GCCCCAGCTTCTCAGCTCGCTGGATGGCGGAAGCTGCTACTCGTGAGCGCCAGTGCGGGTGCAGACAATCTTCTG
TTGGGTGGCATCATTTCCAGGCCCGAAGCATGAACAGTGCACCTGGGACAGGGAGCAGCCCCAAATGTACCTGC
TTCTCTGCCCAGCTTTTCATTGCTGTGACAGTGATGGCGAAAGAGGGTAATAACCAGACACAACTGCCAAGTTG
GGTGGAGAAAGGAGTTTCTTTAGCTGACAGAATCTCTGAATTTTAAATCACTTAGTAAGCGGCTCAAGCCCAGGA
GGGAGCAGAGGGATACGAGCGGAGTCCCTTGC CGGGGACCATCTGGAATTTGGTTAGCCCAAGTGAGCCTGACA
GCCAGAACTCTGTGTCCCCGTCTAACCACAGCTCCTTTCCAGAGCATTCCAGTCAGGCTCTCTGGGCTGACTG
GGCCAGGGGAGGTTACAGGTACAGTTCTTTAAGAAGATCTTTGGGCATATACATTTTTAGCCTGTGTCATTGCC
CCAAATGGATTCCGTGTTTCAAGTTCACACCTGCAGATTCTAGGACCTGTGTCTAGACTTCAGGAGTCAAGCTGT
TTCTAGAGTTCTTACCATGGAGTGGGTCTGGAGGACCTGCCCGGTGGGGGGGCAGAGCCCTGCTCCCTCCGGGT
TTCTACTCTTCTCTCTGCTCTGACGGGATTTGTTGATTCTCTCCATTTTGGTGTCTTTCTCTTTTAGATATTGT
ATCAATCTTTAGAAAAGGCATAGTCTACTTGTATAAATCGTTAGGATTAAGTACCTGCCCTCCCCAGGGTCTAAAATTAC
ATATTAGAGGGGAAAAGCTGAACACTGAAGTCAGTTCTCAACAATTAGAAGGAAAACCTAGAAAACATTTGGCA
GAAAATTACATTTGATGTTTTTGAATGAATACGAGCAAGCTTTTACAACAGTGCTGATCTAAAAATACTTAGCA
CTTGGCCTGAGATGCCCTGGTGAGCATTAAGGCAAGGGGAATCTGGAGGTAGCCGACCTGAGGACATGGCTTCTG
AACCTGTCTTTTGGGAGTGGTATGGAAGGTGAGCGGTTACCAGTGACCTGGAAGGCCAGCACCACCCTCCTTC
CCACTCTTCTCATCTTGACAGAGCCTGCCCGAGCGCTGACGTGTCAGGAAAACACCCAGGGAAGTGAAGGCAC
TTCTGCTGAGGGGCGAGCTGCCTTGCCCACTCCTGCTCTGCTCGCCTCGGATCAGCTGAGCCTTCTGAGCTGGC
CTCTCACTGCTCTCCCAAGGCCCTGCTGCTGCTGTCAGGAGGCAGAAGGAAGCAGGTGTGAGGGCAGTGCAAG
GAGGGAGCACAACCCCCAGCTCCCGCTCCGGGCTCCGACTTGTGCACAGGCAGAGCCAGACCCTGGAGGAAATC
CTACCTTTGAATTCAAGAACATTTGGGGAATTTGAAATCTCTTTGCCCCCAAACCCCATCTGTCTACCTTT
AATCAGGTCTGCTCAGCAGTGAGAGCAGATGAGGTGAAAAGGCCAAGAGGTTTGGCTCCTGCCACTGATAGCC
CCTCTCCCCGAGTGTGTTGTGTCAAGTGGCAAAGCTGTTCTTCTGCTGACCTGATTATATCCAGTAACACA
TAGACTGTGCGCATAGGCTGCTTTGTCTCCTCTATCCTGGGCTTTTGTGTTTGTCTTTTAGTTTTGCTTTTAGTT
TTTCTGTCCCTTTTATTTAACGCACCGACTAGACACACAAAGCAGTTGAATTTTTATATATATCTGTATATTG
CACAATTATAAACTCATTTTGCTTGTGGCTCCACACACACAAAAAAGACCTGTTAAAATTATACCTGTTGCTTA

FIGURE 6330C

ATTACAATATTCTGTGATAACCATAGCATAGGACAAGGGAAAAATAAAAAAGAAAAAAGAAAAAAGAAAAACGACAA
ATCTGTCTGCTGGTCACTTCTTCTGTCCAAGCAGATTCTGGTCTTTTCTCCGCTTCTTTCAAGGGCTTCTCTGT
GCCAGGTGAAGGAGGCTCCAGGCAGCACCCAGGTTTTGCACTCTTGTCTTCTCCGCTGCTTGTGAAAGAGGTCCCA
AGGTTCTGGGTGTCAGGAGCGCTCCCTTGACCTGCTGAAGTCCGGAACGTAGTCGGCACAGCCTGGTCGCCTTCCA
CCTCTGGGAGCTGGAGTCCACTGGGGTGGCCTGACTCCCCAGTCCCCCTCCCGTGACCTGGTCAGGGTGAGCCC
ATGTGGAGTCAGCCTCGCAGGCCTCCCTGCCAGTAGGGTCCGAGTGTGTTTCATCCTTCCCACTCTGTGAGCCT
GGGGGCTGGAGCGGAGACGGGAGGCCTGGCCTGTCTCGGAACCTGTGAGCTGCACCAGGTAGAACGCCAGGGGACC
CCAGAATCATGTGCGTCAGTCCAAGGGGTCCCCCAGGAGTAGTGAAGACTCCAGAAATGTCCCTTTCTTCTC
CCCATCCTACGAGTAATTGCATTTGCTTTTGTAAATCTTAATGAGCAATATCTGCTAGAGAGTTTAGCTGTAACA
GTTCTTTTTGATCATCTTTTTTAATAATTAGAAACACCAAAAAATCCAGAACTTGTCTTCCAAAGCAGAGA
GCATTATAATCACCAGGGCCAAAAGCTTCCCTCCCTGCTGTCATTGCTTCTTCTGAGGCTGAATCCAAAAGAAA
AACAGCCATAGGCCCTTTCAGTGGCCGGGCTACCCGTGAGCCCTTCGGAGGACCAGGGCTGGGGCAGCCTCTGGG
CCCACATCCGGGGCCAGCTCCGGCGTGTGTTTCAGTGTTAGCAGTGGGTATGATGCTCTTTCCCAACCAGCCTGG
GATAGGGGCAGAGGAGGCGAGGAGGCCGTTGCCGCTGATGTTTGGCCGTGAACAGGTGGGTGCTGCGTGCGTCC
ACGTGCGTGTTTTCTGACTGACATGAAATCGACGCCGAGTTAGCCTCACCCGGTGACCTCTAGCCCTGCCCGGA
TGGAGCGGGGGCCACCCGGTTCAGTGTTTCTGGGAGCTGGACAGTGGAGTGCAAAAGGCTTGCAGAACTTGAAG
CCTGCTCCTTCCCTTGCTACCACGGCCTCCTTTCGGTTTGATTGTGCTGCTTCAATCAATAACAGCCGCTCCA
GAGTCAGTAGTCAATGAATATATGACCAAATATCACCAGGACTGTTACTCAATGTGTGCCGAGCCCTTGCCCATG
CTGGGCTCCCGTGATCTGGACACTGTAACGTGTGCTGTGTTTGTCTCCCTTCCCTTCTTTTGCCCTTTAC
TTGTCTTTCTGGGGTTTTTCTGTTTGGGTTTGGTTTGGTTTTTATTTCTCCTTTTGTGTTCCAAACATGAGGTTT
TCTCTACTGGTCTCTTAACTGTGGTGTTGAGGCTTATATTGTGTAAATTTTGGTGGGTGAAAGGAATTTTGCT
AAGTAAATCTCTTCTGTGTTTGAACCTGAAGTCTGTATTGTAACCTATGTTTAAAGTAATTGTTCCAGAGACAAATA
TTTCTAGACACTTTTTCTTTACAAACAAAAGCATTTCGGAGGGAGGGGGATGGTGACTGAGATGAGAGGGGAGAG
TGAACAGATGACCCCTGCCCAGATCAGCCAGAAGCCACCCAAAGCAGTGGAGCCCAGGAGTCCCACTCCAAGCCA
GCAAGCCGAATAGCTGATGTGTTGCCACTTTCCAAGTCACTGCAAAACCAGGTTTTGTTCGCCCAGTGGATTCT
TGTTTTGCTTCCCTCCCCCGAGATTATTACCACCATCCCGTGCTTTTAAAGGAAAGGCAAGATTGATGTTTCT
TGAGGGGAGCCAGGAGGGGATGTGTGTGTGCAGAGCTGAAGAGCTGGGGAGAATGGGGCTGGGGCCACCCAAGCA
GGAGGCTGGGACGCTCTGCTGTGGGCACAGGTCAGGCTAATGTTGGCAGATGCAGCTCTTCTGGACAGGCCAG
TGGTGGGCATTCTCTCTCCAAGGTGTGCCCCGTGGGCATTACTGTTTAAAGACACTTCCGTCACATCCCACCCCAT
CTCCAGGGCTCAACACTGTGACATCTCTATTCCCCACCCTCCCTTCCAGGGCAATAAAATGACCATGGAGG
GGCTTGCACTCTCTTGGCTGTACCCGATCGCCAGCAAACTTAGATGTGAGAAAACCCCTTCCCATTTCACTGGC
GAAAACATCTCCTTAGAAAAGCCATTACCCTCATTAGGCATGGTTTTTGGGCTCCCAAAACACCTGACAGCCCTC
CCTCCTCTGAGAGGCGGAGAGTGCTGACTGTAGTGACCATTGCATGCCGAGGTGCAGCATCTGGAAGAGCTAGGCA
GGGTGTCTGCCCCCTCCTGAGTTGAAGTACTGCTCCCCTGTGCCAGCCGAGGCGGAGAGCTATGGACAGCATT
GCCAGTAACACAGGCCACCCCTGTGCAGAGGAGCTGGCTCCAGCCTGGAACCTGTCTGAGGTTGGGAGAGGTG
CACTTGGGGCAGCAGGAGAGGCGGGACACACTTAGCTGGAGATGTCTCTAAAAGCCCTGTATCGTATTACCTT
CAGTTTTTGTGTTTTTGGGACAACTTACTTTAGAAAAATAAGTAGGTCGTTTTTAAAAACAAAATTATTGATTGCTTT
TTTGTAGTGTTAGAAAAAAGGTTCTTTGTGTATAGCCAAATGACTGAAAGCACTGATATATTTAAAAACAAAAG
GCAATTTATTAAGGAAATTTGTACCATTTTCAGTAAACCTGTCTGAATGTACCTGTATACGTTTCAAAAACACCC
CCCCCACTGAATCCCTGTAACTATTTATTATATAAAGAGTTTGCCTTATAAATTT

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FIGURE 6331

MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAEPAEAGKAETSEGGSGSAPAVP
EASASPKQRRSIIRDGRGPMYDDPTLPEGWTRKCLKQRKSGRSAGKYDVYLINPQGKAFRSKVELIAYFEKVGDTSL
DPNDFDFTVTGRGSPSRREQPPKKPKSPKAPGTGRGRGRPKGSGTTRPKAATSEGVQVKRVLEKSPGKLLVKMP
FQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEADPQAIPKKRGRKPGSVAAAAAEAKKKAVKESSIRSVQETV
LPIKKRKTRETVSIEVKEVVKPLLVLSTLGEKSGKGLKTCKSPGRKSKESSPKGRSSSASSPPKKEHHHHHHHSES
PKAPVPLLPLPPPPPEPESEDPTSPPEPQDLSSSVCKEEKMPRGGSLESDGCPKEPAKTQPAVATAATAAEKY
KHREGGERKDIVSSMPRPNREEPVDSRTPVTERVS

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FIGURE 6332

CGCGGACCCGGCCGGCCAGGCCCCGCGCCCGCGGCCCTGAGAGGCCCCGGCAGGTCCCGGCCGGCGGGCGGC
AGCCATGGCCGGGGGGCCGGGCCCGGGGAGCCCGCAGCCCCGGCGCCAGCACTTCTTGTACGAGGTGCCGCC
CTGGGTTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTCGCCGCCCTGAT
CGTGCGCGACCAAGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCTCTGTGGCCCTGGAT
CAACCGCAACGCCCCGTGTGGCCGACCTCGTGACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCGAGGCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCTGGAGCCCCCGGAAGTTGCCATCCTCAGCCTCCACCTTCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTAGGGCCTGAGCTCGGCCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGTGTCCCTCTGCAGGGAGCCCCGCCCTCTCCGTTTTG
CTGGCCCCCTCTGTGAGATTTCCCGGGGCACCCACAACCTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCTGCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCACCTCTCTCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCG
GGCAATTCTAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCTCTTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGGTTAGCCGCTTTGCCGGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCGGACACAGACAGTGGGGGCACCTGGCCTACCTGCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGGAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCAGGCCCGGGCCCTGCCACCTGAGCTGGGCCTGGGCCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGCCAAAAGGAGGCCTCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGTGCCCGGGCATTGGAGGCCGCCAGCTGCATCCCCCTTCCCCGAGGAGAACTCTTACGTGTC
CAGCACTGGCAGAGCCACAGTGGGGCTGCTCCATGGCAGCCCTGGCAGCGCCATCAGGAGCCAGTGCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCAACCAGCCCGTGGAGAGTGACGAGAGCCTAGGCGGCCTCTCTGCTGCCCT
GCGCTCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCTCTAGGGGGA
CACGGCAGGAGAATCGAGCTGGGGGAGTGGCCAGGATCCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTCTGTCAGAGCCACCGCAGATTATCATCAACCTGCCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGTGTCTGTCTCAGCTCCCTCCAGGCTTGGGCTGGGAACA
GGACAGGCAGGGGCCCGAAGAAAGTGATGAATTTAGAGCTTGATGTGTTACCTGGGCAGATCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGACAGTCTCAGCACTCTGCCGCGAGTGGGGGTGGGGG
CCCATGCCCGCGGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGATGGAAC
CCTGCCTCCATGCCAGCATCTGGGGGCAAGGAAGGTGGCATCATCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGGGGCTGCTGTGCAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCAGGCCTTGGCAGCAGCTTTTGCCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCCTAGGGCCCTCTACCTGCTTACAATTTGGAAGGTGTGGCCGGGTGCGGT
GGCTACGCCCTGTAATCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAATTTTTAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTATGCTTGGGAGGTGAGGCTGCAGTGAATCAT
AGTATGGCTGTAAGTCTCATGGTTCAGTCTAGCAAGAAGCAGAAATCTGAGATCCTCCAGAAAGTCAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGGGCCACAGACGAGCTCCGAGCCAGGTGAGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCAGGCACTGATTGTGGCAGAGGGGCCACTACCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCCGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAAACATTTTTCAGGGAAAAGACAT
GTATCACATGTCTTCAGAAGCAAGTCAGGTTTCATGTAACCGAGTGTCTCTTGCCTGTCCAAAAGTAGCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTGTGTTTCAGCCGTGAGTCACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCTTGAGTAATAAAAACGTATGTTCCCTAAAAA

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FIGURE 6333

MAGGPGGEPAPGAQHFLYEVPPWVMCRFYKVMdalepadwcQfaalivrdQTELRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSSASTFLSPAFIGS
QTHSGPELGLVPSPASLWPPPPSPAPSSTKPGPESSVSLLQGARPSPFCWPLCEISRGTHNFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACPPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGR LAVDTDFSGVVVLETLAQRAVKTHGARTKYLKDLVEEEAEAEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPPELGLGLGQLACCCLHRRAKRRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPPSQENSYSSTGRAHSGAAPWQPLAAPSGASQAQAEQLQRGPNQPVESDESIGGLSALR
SWHLTPSCPLDPAPLREAGCPQGD TAGESSWGSGPGSRPTAVEGLALGSSASSSSSEPPQIIINPARQKMQKLAL
YEDGALDSIQLLSSSSSLPGLGLEQDRQGPESDEFQS

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FIGURE 6334A

GC GCGGTGCCGCCGGGAAAGATGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCAAGGAAGAGCTGGGTGTGACCGTGTACAGTCCGCCCCACTCTGGCT
CCTTACCATCAGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTACCTCCGACAACTCAGACTACATCTGCCACGCCACTTCCAGGCACAGGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCTGCTCT
TCCCCAACCACTCCAGCAGCCACCTGGTGGCCTTGACAGGGCAGCCATTGGTCTGGAGTGCATCGCCGAGGGCT
TTCCACGCCCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCCTGCAGTCTGAAAGTGGCGGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGCCCGGCATGCGTACTATGTACCGTGGAGGCTGCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCGCCTGGACTGCCAAGTCCAGGGCAGGCCCAACCAGAGGTACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACAGAAAGTACCGGATTCAGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCAAGTGACACAATGGTGACCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCTATGCCAATGGGACCTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTACGTGCCAGGCCTCCTTTG
ACCCCTCCTTGCAGCCAGCATCACCTGGCGTGGGGACGGTTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTCATCCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGCTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTGTCAGAAGACCACAATGCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTT
CAGGGAACAGACCTCTACACCCCTCAAGCTGTGCGCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGGAAGGAAATGAGACCACCAATATGGTCATCAGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTCACTACCGCTGCACTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACAGAGCCCAAGTCACTATCGGCTACTCTGGAGAGGACTACCCCAAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGCTGGACCTGGCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAG
ACCATGTGGTGGTGGCCGCAACACCACAGTGTATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCGCCGACGAGTTACCTTCAGCACCCCAAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTCAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGCTCACCGGCTACGTGCTCTCTACCACCCCTGGATGAGGGGGCAAGGGGCAACTGTCCTTCA
ACCTTCGGGACCCCGAACTTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGTGAAACTACAGTGTCTGCTCTCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCTACACGAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAAAATGGCTGTGAAGACCAATGGCACAGGCCGCTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTTCATCGGCTTTGTGAGTGCCATCATCTCTCTGCTCCTGCTCCTGCTCATCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAAACTACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGGTCCCTGGAGAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCAT

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FIGURE 6334B

CGCTCAACGGGGACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTCACT
TCAACGAGGATGGTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCT
CAGGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCT
GGCCTTGGGATCCAGGGCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTG
CCTCGGATCCCCTTCCACACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCTGGGCACACGC
TGCTCTGCCCCAGCTTGGGCAGATCTCCACATGCCAGGGGCCCTTTGGGTGCTGTTTTGGCAGCCCATTTGGGCA
GAGAGGCTGTGGTTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCC
TGACTGGGGGCAGACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAG
CCAGCCTGGCTGGGACTGGGAACAGAACTGGGTGTCCCCACCATCTGCTGTCTTTTCTTTGCCATCTCTGCTCCA
ACCGGGATGGGAGCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCACTCC
CAGCATCGCACTCTGGCAGCACCGCTCTTCCCGCCGCCAGCCACCCCATGGCCGGCTTTCAGGAGCTCCATA
CACACGCTGCCTTCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACAC
CTCCTCCCACTGCCCCTGGCCGGC

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FIGURE 6335

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFP TDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTYQSPHSGSFTITGNNSNFAQRFQGIYRCFASNKLTAMSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICHAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGMPMPADRVTYQNHNKTLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTEAAPYWLHKPQSHLYGPGETARLDCQVQGRPOPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVQLPKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRDQANDTG RYFCLAANDQNNVTIMANLKVKDATQITQGPR
STIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGSDSKYFIEDGRLVIHSLDYSQGNYSVASTELDVV
ESRAQLLVVGSPPGPVPRVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSVSETVVTPEAAPEKNPVDVKGEGNETTNMVTWKPLRWMDWNAPQVQY
RVQWRPQGTGRGPWQE QIVSDPFLVVSNTSTFVPYEIKVQAVNSQKGPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTFSTPEGVPGHPEALHLECQSNSTSLLLRWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDP
RTHNLTDLSPHLR YRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVS WVPKEGQC NFRHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPD TDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYRSLESDNEEKAFGSSQPSLNGDIK
PLGSDDSLADYGGSDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6336A

GC GCGGTGCCGCGGGAAAGATGGTCTGTCGGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAAGTCCCCACTCTGGCT
CCTTCACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACCAAGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCTGTCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGACAGGGCAGCCATTGGTCTGGAGTGCATCGCCGAGGGCT
TTCCACGCCCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGCCCGGCATGCTACTATGTACCGTGGAGGCTGCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCCCTGGACTGCCAAGTCCAGGGCAGGCCCCAACAGAGGTACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAGAAGTACCGGATTACCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCAGTGACACAATGGTGACCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCTATGCCAATGGGACCTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCACGTGCCAGGCCTCCTTTG
ACCCCTCCTTGCAGCCAGCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCTGGTTCATCCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCGGTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTGTCAGAAGACCACAATGCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTT
CAGGGAAACAGACCTTACCAACCTCAAGCTGTGCGCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGGAGGAAATGAGACCACCAATATGGTCATCACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTCACTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCTCAACTCAAGTCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGGCCGCAACACCACAGTGTATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCGCCGACGAGTTACCTTCAGCACCCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTGAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGTCAACGGCTACGTGCTCTCTACCACCCCTGGATGAGGGGGCAAGGGGCAACTGTCCTTCA
ACCTTCGGGACCCCGAACTTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGGTGAAGAACTACAGTGTCTCTCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAAAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTTCATCGGCTTTGTGAGTGCCATCATCTCTGCTCCTCGTCTCTGCTCATCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAAACTACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGGCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGTGACAACAGGAGAAGGCCTTTGGCAGCAGCCAGCCATCGCTCAACGGGG

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FIGURE 6336B

ACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGTTCAACGAGGATG
GTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCTCAGGGGCCACTT
CCCCCATCAACCCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCCCTGGCCTTGGGATC
CAGGCCCCCTCCCTCTCCAGCAGGCCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTGCCTCGGATCCCC
TTCTTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCCTGGGCACACGCTGCTCTGCCCCA
GCTTGGGCAGATCTCCACATGCCAGGGGCCTTTGGGTGCTGTTTTGCCAGCCCATTTGGGCAGAGAGGCTGTGG
TTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCCTGACTGGGGGCA
GACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAGCCAGCCTGGCTG
GGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTCTTTGCCATCTCTGCTCCAACCGGATGGGA
GCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCAGAGTCCCCCACTCCCAGCATCGCACT
CTGGCAGCACCGCCTCTTCCCGCCGCCCAGCCACCCCATGGCCGGCTTTTCAGGAGCTCCATACACACGCTGCCT
TCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACACCTCCTCCCACTG
CCCACTGGCCGGC

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FIGURE 6337

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPTDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFQGIYRCFASNKLGTA MSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICHAHFPQTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVAIQGQPLVLECIAEGFPTPTIKWLRPSGPM PADRVTYQNHNKTLQLL
KVGEEDDGEYRCLAENSLGSARHAYVTV EAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEE
LAKDQKYRIORGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRD LQANDTGRYFCLAANDQNNVTIMANLKV DATQITQGPR
STIEKKGSRVFTTCQASFDP SLQPSITWRGDGRDLQELGDS DKYFIEDGRLVIHSLDYS DQGNYSCVASTELDVV
ESRAQLLVVGSPGPVPRVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGEGNETTNMVITWKPLRWMDWNAPQVQY
RVQWRPQGRGPWQEQIVSDPFLVVSNTSTFVPYEIKVQAVNSQKGKPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTFSTPEGVP GHPEALHLECQSN TSLLRWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDPEL
RTHNLTDLSPHLR YRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVS WVPKEGQC NFRFHIL
FKALGEEKGASLSPQYVSYNQSSYTQWDLQPD TDYEIHLFKERMFRHQMAVKTNGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYSDNEEKAFGSSQPSLNGDIKPLGS
DDSLADYGGSDVDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6338

TCGTGTTTCATGGGAGCTCGTTTTCTTTTCCTCTAGGCAGAGAAGAGGCGATGCGCGCGATGGCATCTCTCGGCGC
CCTGGCGCTGCTCCTGCTGTCCAGCCTCTCCCGCTGCTCAGCCGAGGCCTGCCTGGAGCCCCAGATCACCCTTC
CTACTACACCACTTCTGACGCTGTCATTTCCACTGAGACCGTCTTCAATTGTGGAGATCTCCCTGACATGCAAGAA
CAGGGTCCAGAACATGGCTCTCTATGCTGACGTCGGTGGAACAATTCCCTGTCACTCGAGGCCAGGATGTGGG
GCGTTATCAGGTGTCCTGGAGCCTGGACCACAAGAGCGCCACGCAGGCACCTATGAGGTTAGATTCTTCGACGA
GGAGTCCTACAGCCTCCTCAGGAAGGCTCAGAGGAATAACGAGGACATTTCCATCATCCCCTCTGTTTACAGT
CAGCGTGGACCATCGGGGCACCTTGAACGGGCCCTGGGTGTCCACTGAGGTGCTGGCTGCGGCGATCGGCCTTGT
GATCTACTACTTGGCCTTCAGTGCGAAGAGCCACATCCAGGCCTGAGGGCGGCACCCCAGCCCTGCCCTTGCTTC
CTTCAATAAACATCACAGGACCTGGGACTGCACAGGAAAAAA

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FIGURE 6339

MAAMASLGALALLLLSSLSRCSAEACLEPQITPSYYTTS DAVISTETVFIVEISLTCKNRVQNMALYADVGGKQF
PVTRGQDVGRYQVSWSLDHKSAHAGTYEVRRFFDEESYSLLRKAQRNNEDISIIPPLFTVSDHRGTWNGPWVSTE
VLAAAIGLVIYYLAFSAKSHIQA

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FIGURE 6340

GGGCGGGGGTTCGCGGTCCCCCTCAACATGGCGGCAGCGGTGCTCTAGGCGCCGGAAGGGGGCGTGAATCGGTG
CGACCGCGCGGTGCGCAGTACCGGGTCCGCGCCTGTCCCCGAAACTTCGCACCCCGTCGAACTCTCGCGAGAGC
GTATCTGCGTGTCTGGGACGTGCGGAGGCTCTCACTTTCCGTCATGGCGCTGAAGGTAGCGACCGTCTCGCCGGCAGC
GCCGCGAAGGCGGTGCTCGGGCCAGCCCTTCTCTGCCGTCCCTGGGAGGTCTAGGCGCCACGAGGTCCCCTCG
AGGAACATCTTTTCAGAACAAACAATTCTCCGTCCGCTAAGTATGGCGGGCGGCACACGGTGACCATGATCCCA
GGGGATGGCATCGGGCCAGAGCTCATGCTGCATGTCAAGTCCGTCTTCAGGCACGCATGTGTACCACTGGACTTT
GAAGAGGTGCACGTGAGTTCCAATGCTGATGAAGAGGACATTTCGCAATGCCATCATGGCCATCCGCCGGAACCGC
GTGGCCCTGAAGGGCAACATCGAAACCAACCATAACCTGCCACCGTTCGCACAAATCTCGAAACAACATCCTTCGC
ACCAGCCTGGACCTCTATGCCAACGTTCATCCACTGTAAGAGCCTTCCAGGCGTGGTGACCCGGCACAAGGACATA
GACATCCTCATTGTCCGGGAGAACACAGAGGGCGAGTACAGCAGCCTGGAGCATGAGAGTGTGGCGGGAGTGGTG
GAGAGCCTGAAGATCATCACCAAGGCCAAGTCCCTGCGCATTCGCCAGTATGCCTTCAAGCTGGCGCAGGAGAGC
GGGCGCAAGAAAGTGACGGCCGTGCACAAGGCCAACATCATGAAACTGGGCGATGGGCTTTTCTCCAGTGCTGC
AGGGAGGTGGCAGCCCGTACCCTCAGATCACCTTCGAGAACATGATTGTGGATAACACCACCATGCAGCTGGTG
TCCCGGCCCCAGCAGTTTGTATGTATGGTGTATGCCCAATCTCTATGGCAACATCGTCAACAATGTCTGCGCGGGA
CTGGTCTGGGGGGCCAGGCCTTGTGGCTGGGGCCAACTATGGCCATGTGTACGCGGTGTTTGAAACAGCTACGAGG
AACACCGGCAAGAGTATCGCCAATAAGAACATCGCCAACCCACGGCCACCCTGCTGGCCAGCTGCATGATGCTG
GACCACCTCAAGCTGCACTCCTATGCCACCTCCATCCGTAAGGCTGTCTTGGCATCCATGGACAATGAGAATATG
CACACTCCGACATCGGGGGCCAGGGCACAACATCTGAAGCCATCCAGGACGTATCCGCCACATCCGCGTCATC
AACGGCCGGGCGGTGGAGGCCTAGGCTGGCCCTAGGACCTTCTTGGTTTGTCTCCTTGGATTCCCCTTCCCACTCC
AGCACCCAGCCAGCCTGGTACGCAGATCCCAGAATAAAGCACCTTCTCCTAGAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 6341

MALKVATVAGSAAKAVLGPALLCRPWEVLGAHEVPSRNIFSEQTIPPSAKYGGRTVTMIPGDGIGPELMLHVKS
VFRHACVPVDFEEVHVSSNADEEDIRNAIMAIRRNRVALKGNITNHNLPESHKSRNNILRTSLDLYANVIHCKS
LPGVVTRHKDIDILIVRENTEGEYSSLEHESVAGVVESLKIIITKAKSLRIA EYAFKLAQESGRKKVTAVHKANIM
KLG DGLFLQCCREVAARYPQITFENMIVDNTTMQLVSRPQQFDVMVMPNLYGNIVNNVCAGLVGGPGLVAGANYG
HVVAVFETATRNTGKSIANKNIANPTATLLASCMLDHLKLHSYATSIRKAVLASMDNENMHTPDIGGQGTSEA
IQDVIRHIRVINGRAVEA

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FIGURE 6342A

CGGGACGGACGCGCTGGTGGCCCCGGGGAGGGGCGCCACCGGGGGAGGAGGAGGAGAGAAGGTGGAGAGGAAGA
GACGCCCCCTCTGCCCCGAGACCTCTCAAGGCCCTGACCTCAGGGGCCAGGGCACTGACAGGACAGGAGAGCCAAG
TTCTTCCACTTGGGCTGCCCCAAGAGGCCGCGACCTGGAGGGCCCTGAGCCACCGCACCAGGGGCCCCAGCAC
CACCCCGGGGGCCATAAGCGACAGTCTCAGGGGCCATCGCAAGGTTTCCAGTTGCCTAGACAACAGGCCCAGGGT
CAGAGCAACAATCTTCCAGCCACCTGCCTCAACTGCTGCCCCAGGCACCAGCCCCAGTCCCTACGCGGCAGCCA
GCCCAGGTGACATGCGCGGTGCTCTCCAGGCCCCGGCCCTGGCGGGGAACACGCTGAAGCGCACGGCCGTGCTCC
TGGCCCTCGCGGCCTATGGAGCCACAAAGTCTACCCCTTGGTGGCCAGTGCCTGGCCCCGGCCAGGGGTCTTC
AGGCGCCCCGCGGGAGCCACGAGGAGGCCTCCGGGTGCGGCGGCCAAAGCTGGCATGAACCGGTATTCC
TGCAGCGGCTCCTGTGGCTCCTGCGGCTGCTGTTCCCCCGGGTCCCTGTGCCGGGAGACGGGGCTGCTGGCCCTGC
ACTCGGCCGCTTGGTGAGCCGCACCTTCTGTGCGTGTATGTGGCCCGCCTGGACGGAAGGCTGGCCCCGTGCA
TCGTCCGCAAGGACCGCGGGCTTTGGCTGGCAGTGTGTCAGTGGCTCCTCATCGCCCTCCCTGCTACCTTCG
TCAACAGTGCCATCCGTTACCTGGAGGGCCAAGTGGCCCTGTGCTTCCGCAGCCGCTGCTGGTGGCCACGCCATCC
GCCTCTACTTCTCCAGCAGACCTACTACCGGGTCAGCAACATGGACGGGCGGCTTCGCAACCCCTGACCAAGCTCTC
TGACGGAGGACGTGGTGGCCTTTGCGGCCTCTGTGGCCACCTCTACTCCAACCTGACCAAGCCACTCCTGGACG
TGGCTGTGACTTCTTACACCCTGCTTCGGGCGGCCCGCTCCCGTGGAGCCGGCACAGCCTGGCCCTCGGCCATCG
CCGGCCTCGTGGTGTTCCTCACGGCCAACGTGCTGCGGGCCTTCTCGCCCAAGTTCCGGGAGCTGGTGGCAGAGG
AGGCGCGGCGGAAGGGGAGCTGCGCTACATGCACTCGCGTGTGGTGCCAACTCGGAGGAGATCGCCTTCTATG
GGGGCCATGAGGTGGAGCTGGCCCTGCTACAGCGCTCCTACCAGGACCTGGCCTCGCAGATCAACCTCATCCTTC
TGGAACGCCTGTGGTATGTTATGCTGGAGCAGTTCCTCATGAAGTATGTGTGGAGCGCCTCGGGCCTGCTCATGG
TGCTGTCCCCATCATCACTGCCACTGGCTACTCAGAGTCAGATGCAGAGGCCGTGAAGAAGGCAGCCTTGGA
AGAAGGAGGAGGAGCTGGTGAGCGAGCGCACAGAAGCCTTCACTATTGCCCGCAACCTCCTGACAGCGGCTGCAG
ATGCCATTGAGCGGATCATGTGTCGTACAAGGAGGTGACGGAGCTGGCTGGCTACACAGCCCCGGGTGCACGAGA
TGTTCCAGGTATTGAAGATGTTACAGCGCTGTCACTTCAAGAGGCCAGGGAGCTAGAGGACGCTCAGGCGGGGT
CTGGGACCATAGGCCGCTGGTGTCCGTGTGGAGGGCCCCCTGAAGATCCGAGGCCAGGTGGTGGATGTGGAAC
AGGGGATCATCTGCGAGAACATCCCCATCGTCACGCCCTCAGGAGAGGTGGTGGTGGCCAGCCTCAACATCAGGG
TGAGGAAGGCATGCATCTGCTCATCACAGGCCCAATGGCTGCGGCAAGAGCTCCCTGTTCCGGATCCTGGGTG
GGCTCTGGCCACGTACGGTGGTGTGCTCTACAAGCCCCACCCAGCGCATGTTCTACATCCCGCAGAGGCCCT
ACATGTCTGTGGGCTCCCTGCGTGACCAGGTGATCTACCCGGACTCAGTGGAGGACATGCAAAGGAAGGGTACT
CGGAGCAGGACCTGGAAGCCATCCTGGACGTGCTGCACCTGCACCACATCCTGCAGCGGGAGGGAGGTGGGAGG
CTATGTGTGACTGGAAGGACGTCTGTGCGGTGGCGAGAAGCAGAGAATCGGCATGGCCCGCATGTTCTACCACA
GGCCCAAGTACGCCCTCCTGGATGAATGCACCAGCGCGGTGAGCATCGACGTGGAAGGCAAGATCTTCCAGGCGG
CCAAGGACGCGGGCATTGCCCTGCTCTCCATCACCCACCGGCCCTCCCTGTGGAAATACCACACACACTTGCTAC
AGTTCGATGGGAGGGCGGCTGGAAGTTCGAGAAGCTGGACTCAGCTGCCCGCTGAGCCTGACGGAGGAGAAGC
AGCGGCTGGAGCAGCAGCTGGCGGGCATTCCCAAGATGCAGCGGCGCCTCCAGGAGCTCTGCCAGATCCTGGGCG
AGGCCGTGGCCCCAGCGCATGTGCCGGCACCTAGCCCGCAAGGCCCTGGTGGCCTCCAGGGTGCCTCCACCTGAC
ACAACCGTCCCCGGCCCCCTGCCCCGCCCAAGCTCGGATCACATGAAGGAGACAGCAGACCCACCCATGCAGC
CACCCCGCCCCCTGCATGCCTGGCCCTCCTCCTAGAAAACCTTCCCGCCCTCGGGAAGTAGATGTGGAGGGTG
GCGCCCTGCGTAACCTCGCCCTGTCCCTCCCACTCCCTGGGGGCGCTGTTCACAGTGAAGTGGGCCCTGTCCAG
GGCAGTGAGTCTTACTTTGCTCCGCGGAGGAAGCTGGGGTACAAGGGGCCAGTGTGGCCACACAGCAGCGC
AGCCGAGCCCCAGGAGCCCGTCAGGCCACAGCCCTGGCACTGCAGGTGGCCTCCCTCCAGAGACTCGAGTCCCC
ATGATTCCTCCTCGTCAGTCTCTCAAAGACCCATGGTCCATCCCTGAGGGTGGTCAGCCAAGGCTCCCGTTC
CGTGGGATGCCATAAAAGCCGCCCAGTGGGACCCACAGTCACACAGAGCGCCTCACCTGCATCCTCTCCCCACA
AGAGCCCCAAAGATCCACGGGAGAGGGGAGAGGGACGCACAGCACTGCCTGCCAAGCGAGAATGCAGGCCCGC
CCCCTCGGCCCCCTACCACTCTTTCTACAGCCTAATTTATTGGATTCCCTATTCTGATGCCATCTCCGTGGCCAA
TGTGACTACCGTGCCAGCAGCGGGGGCGGCCAGCCTCTGAGTCCCGTGGGGCCCCGGCTCCACCGGTGCCAAA
CCAGGCCCTGCGGCGGTACCCCGCCAGCCTACACTGCCAGCGCCACCGGGGCACAGGGCCTCTGCTTGCCA
GCCAGGAGTGGGACACCATGTTCCAGCTCAGTGCCAAAGAGGGGTACACAGGGGAGCTGTCTGCGGAGCCAG
CGCTGCCCCGAGAGAGACCCACCGCCACCGTGTGCTTTCCCGGGCCCTCAGCCCTCGGGCGGGCACCACCCC

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FIGURE 6342B

CAGTCCCCCAGTAAA

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FIGURE 6343

MPVLSRPRPWRGNTLKRTAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGVAAAKAGMNRVFLQRL
LWLLRLLFPRLCRETGLLALHSAALVSRTFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVNSA
IRYLEGQLALSFRSRLVAHAYRLYFSQQTYYRVSNMDGRLRNPQSLTEDVVAFASVAHLYSNLTKPLLDVAVT
SYTLLRAARSRGAGTAWPSAIAGLVVFLTANVLAFLSPKFGELVAEEARRKGELRYMHSRVVANSEEIAFYGGHE
VELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSASGLLMVAVPIITATGYSESDAEAVKKALEKKEE
ELVSETEAFTIARNLLTAAADAIERIMSSYKEVTELAGYTARVHEMFQVFEDVQRCHFKRPRELEDAQAGSGTI
GRSGVRVEGPLKIRGQVVDVEQGIICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNCGCKSSLFRILGGLWP
TYGGVLYKPPQRMFYIPQRPYMSVGSRLDQVIYPDSVEDMQRKGYSEQDLEAILDVVHLHHILQREGGWEAMCD
WKDVLSGGEKQRIGMARMFYHRPKYALLDECTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYHHTLLQFDG
EGGWKFEKLDAAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGPGLQGAST

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FIGURE 6344

TTTCCGGCCGCGGTATGAGGGGCGGGGCCGGGGCTGCTGTGGGAGAGTTTCGGTTGCTGCGGCGGGGCCTGCACGT
TGACTGTGGGAACTCGGAAACAAGCTCACATCTTCCTGTGGGAAACCTTCTAGCAACAGGATGAGTCTGCAGTG
GACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCTTTGTTGTGTTGCTTCTCTGCATTCCCTTCATTTCTCCTAA
AAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGTCTATGGCAACACCTTCTTTGTGGTTCT
CATTGTTCATCCTTGTGCTGTTGGTCATCGATGCCGTGCGCGAAATTCGGAAGTATGATGATGTGACGGAAAAGT
GAACCTCCAGAACAATCCCGGGGCCATGGAGCACTTCCACATGAAGCTTTTCCGTGCCAGAGGAATCTCTACAT
TGCTGGCTTTTTCCTTGTGCTGTCTTCTGCTTAGACGCCTGGTGACTCTCATTTTCGCAGCAGGCCACGCTGCT
GGCCTCCAATGAAGCCTTTAAAAAGCAGGCGGAGAGTGCTAGTGAGGCGGCCAAGAAGTACATGGAGGAGAATGA
CCAGCTCAAGAAGGGAGCTGCTGTTGACGGAGGCAAGTTGGATGTGCGGAATGCTGAGGTGAAGTTGGAGGAAGA
GAACAGGAGCCTGAAGGCTGACCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAAGTACAGAAAAGC
TGAAAACCAGGTTCTGGCCATGCGGAAGCAGTCTGAGGGCCTCACCAGGAGTACGACCGCTTGTGAGGAGGAGCA
CGCAAAGCTGCAGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGATTAAGGGCCTCCTTCCCTCCCTGCGCTG
CAGCTGGCTTCCACCTGGCACGTGCCTGCTGCTTCCCTGAGAGCCCGGCTCTCCCTCCAGTACTTCTGTTTGTGC
CCTTCTGCTTCCCCCATTCCCTTCCACAGCTCATAGCTCGTTCATCTCGGCCCTTGTCCACACTCTCCAAGCACAT
TACAGGGGACCTGATTGCTACACGTTTCAAGTGCCTTGTGCTGTCATCCTGCTTGGCCTGGCCAGGCCTGGCACAG
CCTTGGCTTCCACGCTGAGCGTGGAGAGCACGAGTTAGTTGTAGTCCGCTTGCAGGTGGGGCTGACTTCTGTT
GGTTTGAGCCCTTTTGTGTTTGGCCCTCTGGGTGTTTTCTTTGGTCCCGCAGGAGGGTGGGTGGAACAGGTGGAC
TGGAGTTTCTCTTGAGGGCAATAAAAGTTTTCATGGTGG

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FIGURE 6345

MSLQWTAVATFLYAEVFVLLLCIPFISPKRWQKIFKSRLVELLSYGNTEFFVVLIVILVLLVIDAVREIRKYDD
VTEKVNLONNPGAMEHFHMKLFRAQRNLYIAGFSLLLSFLLRRLVTLISQQATLLASNEAFKKQAESASEAAKKY
MEENDQLKKGAAVDGGKLDVGNAEVKLEENRSLKADLQKLKDELASTKQKLEKAENQVLAMRKQSEGLTKEYDR
LLEEHAQLQAAVDGPMDDKEE

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FIGURE 6346

GCTTCTGCGCGCCGGGGCCGCTCTCCTTCCGCGGGTGCCGCGGCGCCTCATGGAAGCCCCGGAGGCGGCGGAGG
GGGGCCTGCAGCGCGGGGCCCGGAGGGCAGCCGCGGCCCGAAGCCAGGGTGCACTTCCGAGTGGCGAGGTTTCATC
ATGGAGGCAGGTGTCAAGCTAGGGATGCGGTCCATTCCCATTGCCACTGCTTGCACCATTTACCATAAGTTCTTT
TGCGAGACCAACCTGGACGCCTATGACCCTTACCTGATTGCCATGCTTCAATTTACTTGGCCGGCAAAGTGGAA
GAGCAGCACCTGCGGACTCGTGACATCATCAATGTGTCCAACAGGTACTTTAACCCAAGCGGTGAGCCCCCTGGAA
TTGGACTCCCGCTTCTGGGAACCTCCGGGACAGCATCGTGCAGTGTGAGCTTCTCATGCTGAGAGTTCTGCGCTTC
CAGGTCTCCTTCCAGCATCCACACAAGTACCTGCTCCACTACCTGGTTTCCCTCCAGAACTGGCTGAACCGCCAC
AGCTGGCAGCGGACCCCTGTTGCCGTCACCGCCTGGGCCCTGCTGCGGGACAGCTACCATGGGGCGCTGTGCCTC
CGCTTCCAGGCCCAGCACATCGCCGTGGCGGTGCTCTACCTGGCCCTGCAGGTCTACGGAGTTGAGGTGCCCCGCC
GAGGTGAGGCTGAGAAGCCGTGGTGGCAGGTGTTTAATGACGACCTTACCAAGCCAATCATTGATAATATTGTG
TCTGATCTCATTGAGATTTATACCATGGACACAGAGATCCCCTAAGGTCCTGGCCCAGGCCTGCCCAAAGAGAAG
CCACATCTGCGTTTGTCTTTGAGAGGACTTTGACTACAATACAGGCATGACATCAATGAAAGGAAAGTCATGAA
ATCGATGAGACTGAATCCCTACGGATTTCTTAAAAGCCAGATTTGTAGGGAGAATGAATGTGCAACGTGGCTGAA
ATCTATTTTGTGTAATAAAAGGTGATACAAGTC

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FIGURE 6347

MEAGVKLGMRSIPIATACTIYHKFFCETNLDAYDPYLIAMSSIYLAGKVEEQHLRTRDIINVSNRYPNPSGEPL
LDSRFWELRDSIVQCELLMLRVLRFQVSFQHPHYLLHYLVSLQNWLNRRHSWQRTFVAVTAWALLRDSYHGALCL
RFQAQHIHAVVLYLALQVYGVEVPAEVEAEKPWWQVFNDLTKPIIDNIVSDLIQIYTMDEIP

FIGURE 6348

[illegible]

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FIGURE 6349

TTTAGGGAGAAGAAAGCAACCCCTTAAAATAGAGGAAAATGAAGCTGCTTGGATTACCCTGTTGAAGTTCATCTCT
GCCTGTGCCATGCATGAAAAAATACTGGCAAAGTCCTCACTTACATGAGTGTTAGACTCCATGTTCCCAGTGGGT
CTCGGGGTTTCAGAACTGAGTGCTCTCATCCAAGCAATAGGAGCGTCGACCTCAGGAAAGCCCAAGTGTGTTTGTGT
GTATTTTGAGGAGTGGGTATCTGTTGCACTGAGCCTCTCTGTGTATTTTCTTCTTCTTTTCAGCAGAACAAAGGG
GAGGTGGACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTCAGCGTACTCTTTTAGAGAAAATAGAAG
ATTGTCGGCAGAAACAGCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACC
TGCCTGAGAGCAGAGATGGAGGCCTTCTGTTTAC

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FIGURE 6350

CAGAGTTTCGCCATGGCCCGGGGCCCAAGAAGCACTTAAAGCGTGTTGCAGCGCCGAAGCATTGGATGCTTGAC
AAACTAACGGGTGTATTTGCACCTCGTCCATCGACAGGTCCCCACAAGCTGAGGGAATGTCTTCCTCTGATCGTC
TTCCTCAGGAATAGACTCAAGTATGCGTTGACTGGAGATGAGGTAAAGAAGATATGTATGCAACGTTTCATCAAA
ATTGATGGCAAGGTTGAGTGGATGTCACATACCCTGCTGGATTTCATGGATGTCATCAGCATCGAGAAGACAGGT
GAACATTTCCGCCTGGTCTATGACACCAAGGGCCGTTTTGCTGTTCCCGCATCACAGTGGAAGAGGCAAAGTAC
AAGTTGTGCAAAGTGAGGAAGATTACTGTGGGAGTGAAGGGAATCCCTCACCTGGTGACTCATGATGCTCGAACC
ATCCGCTACCCAGATCCTGTTCATCAAGGTGAACGATACTGTGCAGATTGATTTAGGGACTGGCAAGATAATCAAC
TTTATCAAATTTGATACAGGCAATTTGTGTATGGTGATTGGTGGAGCCAACTCGGTCGTGTTGGTGTGATCACC
AACAGGGAAAGACATCCTGGTTCTTTTGATGTGGTGCAITGTGAAGGATGCCAATGGCAACAGCTTTGCCACGAGG
CTTTCCAACATTTTTGTTCATTGGCAATGGCAATAAACCTTGGATTTCCCTGCCCAGGGGAAAGGGCATTTCGACTT
ACTGTTGCTGAAGAGAGAGATAAGAGGCTGGCCACCAACAGAGCAGTGGCTAAATTGCAGTAGCAGCATATCTT
TTTTTCTTTGCACAAATAAACAGTGAATTCTCGTTT

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FIGURE 6351

CTAGTTTCTCAGGATCATGTCTGTGAGCCAGGATTCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCCGA
ATGCGTCATTGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGACATCTATGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTA
TAATGTAATCGCTCAAGCCCGATCTGGGACTGGGAAAATGGCCACATTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCCTTGGTCCTAGCACCCTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGTAGACTACATGGGTGCCTCCTGTCTATGCCTGTGTCTCAGGGGCACCAATATGCGTGTGAGGTGCA
GAAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTAGCCGTGTGTTTGATATGCTTAACCAGAGATA
CCTGTCTCCCAAATACATCAAGATGTTTGTACTGGATAAAGCTGATGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCAGGTTAGTTTTGCTGTCTCAGCTACAATGCCTTCTGATAT
GCTTGAGGTGATCAAGAAGTTCATGAGGGACCCATTTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
CATCCGCCAATTCTACATCAACGTGGAACAAGAGGAGTGAAGCTGGACACACTATGTGACTTGTATGAAACCCCT
GACCATCACCCAGGAAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACTGAGAAGATGCATGCTCG
AGATTTCAGTGTCTCCGCCATGCATGGAGATATGGACAAAAGGAGCAAGACGTGATCATGAGGGAGTTTCATTC
TGGCTCTAGCAGAGTTTTGATTACAACCTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAACCTATATCCACAGAATCAGTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCAAGACATTGAGATCTTCTACAACACCTCCAT
TGAGGAAATGCCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCCCAGCCCCAGCCAGGGCTCAATC
TCGGGGGTGCTGAGGAGCAGCAGGAGAGGGGAGTGAAGGGAGCCAAGGGATAGACTTGTCAATTTTTTTTCTTTGA
ATAAATGTCACTTTTTTGAGGCCAAAA

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FIGURE 6352

ACTTCTGTTCCAAAGGCTGGGAAGAACTAAGCTGCCCCAGCTCCTCCCATTTCTTGGGCAGGGCTCTTTCCTGTT
GTGTGTTCCCTCCAGGGCCTGTCTGTACCGAGCTCTGTCTGTTCCAGCCTTCATCCTTCCCTGGCTGTTGCTTTTC
CTCTTAAGGGCCTTAGAACTCTTGCTCTTCCCTGGGCTGTGGGGAATGAGTGTCTTGCCATTTGCCAGCCTAAT
GCGCATGGTTTCTGCCCCGATAACAGGAGTGAGTGAGCCCCCTCAGACCTGCACTCTGGGTGTCTCCTGCTTTCA
AAGGTTCTTAATAGTGAATGCTTTAAAATTAAAGTCATCACAAAATGGAAGTTTCCCAGGGTGGAAAACAAGAG
GAAGTGCTGCTGTAATTGGGAGCACAAAGGGCCTCCCAAAAAGGAGCCCCACCTCAGCATCACTGCCTTATTTGT
GGCCTCCGTGGGGTGAGTGGGGTTCTCTCCTCCCTCCCTCCCTCCTCCTGGGGTGGGAGGGCGCTCCTATTCCCA
TCTTTGTGTTCCCTGGAGGCAGGTATCACAAAACATTTGTGAATTGCTTTAGGTGCAGGGACACCACCCACTCAG
GACTTTTCCCATCATCCTTCCATTGCCACACCCTAGATCCAGCCTCAGGAACATAAAGTTTTGAGAAAAGCA
GGCGGTAGAGCAGCAGCTTGGTGCTCTCAGCGGTGGCTGGCTGGCATTTTTCTCTAGCATTGTGGTGCCACCTTC
CCTCCTTGTCCTCAAGGTTATAAGGCCTTGTCTTTCTCTTTGGAATCATAAAGTGGAACAGAGTCCCCAGAAGCTCG
TGTGGCCATTTCCGCCAGCATCACTCCCCGGTGCTGTGGGGTCCCGGTGTACCTAATGGGAGAAGCATCCCATG
TGCTAGCCAGAAATATACCGTCTCTTGAAGGAAGCAGGAGCTCAGACTTTTAGAGCCAGCTGTGGCTTCGGACC
CAAGGCCTGACCTAGGCTGCTATCCTAATATTGCAGAAGGGGCCTCTCTTCCAGCCCCACCCTAAGGGTTAGCC
CTTGGCCAAATCTTTTGCCATCTGGTCCCAGCTAGGCTTTTCTGACTAAATAAGCAATAAGAGGGTCTAAGCTGA
CTGAGTTGCAAGGACCCTTTCCACCCTCCCTTGATCTCCATGTTTTTCCAGATGGAGGAAGAGCATGTGCCACC
CCCTGTCTTAACAGGCTTGTCCAAGTGCTTGGTGTTGGGACCCAAGACCAAGCCCAGGATGGCTTGGTGGGAGTG
TCCCTGTCTGATCTGCATGAAGCCCCTGCTTTCTAGGCCTCACTCCCATCAGAACCCCTGCCTGCCACCTGCAAC
TCCCCACAGCAATGCCATTCCCACTTGCCCCAGAGAAGCTACTCAGCCAAACCTAGCCAGGGTCTGTTTCATGTA
GACCAGAGCCAGCCTAGTCATTATTTGCTGTGCGGTTTCCAGTTTCACTGTGTGTTAGGGCGAGGGATGATTGTA
AAATTTGCTCCTCAAAGGAATCAGGCCAGACTCAATTTTGAGGGCAAGACAGGGAGGAGGCCGCTTCATCCCAG
ACTCTCTTCTAGGGCTTCCCACCATCAGCCCCCTCCCACTTGAGACTGGTCTTCAGGAGGCAATAGGCCACCATGC
CTGGTCAGCATCAATTCAAGCCATGCCAGGAATCTGCCTACCTGCCAGGTTCAAGTTCTTTAAGGTGCCTCTTAA
GGGACACACTGTGTCTCTCTGATTGGGCTTCTAAATCAAAAGCCTGATGTTTCGTGTCCCTCTCATAGGGGGAGCT
TTGGATACAGGACCAGTTTGGAAAAGGGTCAGGTAAGGGTTTCCACTCTGCACATTGTAGAGGGGACGCTCGGTA
GCCCATGGGTCCCTTACTAAAGAGGTTGAGTGAATTTGCCTTCAGTTAACCTGGGACCTTCTGTTTAGCTTCCTT
CTGCTTCCCAAAGATTTTAAAGCATTTTGTAATGTATAAACTCACCTCTGGCAACAGTGGCCAGATGCTGCTTT
GTGCTATGTAAAGGCAGTCTTCCCTGGGAAATGGATGCTATTCTATTCTGTGCCCCCTACCTGTTCTGAGGCT
TCATTTAGAAAGAAAATACCCTCAGAAGGCTGTCTGGCACCCAGTGCTCCTAGCCAGGCCAAATATATAGAAAGG
TAAGTCCATTTTCCCTTCAGGTCTCAGTGGATGACTTAACCACTGCTGTCCCTTGGTCCCTTTTCTTAAACA
GGGGTTTAGTTCTGTCTTTTTATCCTTTTTTCTAAATGCTGGTAAATATCTACATTAGCCAGGAAGAGGAGGCC
AGAGGTGGGGCCAGCTGCCCCATTCTTTTAACGTTGTAGGGCCTGCCCCCTGGAGTGACCTTCCTCTTTGGGCCT
CGTCAGCTTTTTTGCTTATCATATTCCATTTTGTGCCACTTTCCCTTCAAGATGCCATTTGGAGGGTAGGGGA
TCTGCTTTCCACTGTGAGTGGGCTATGAGATTCTGACTACCTTGCTTACAGATTATGGTTTGATAAATTTGTTG
CATTCAAAAACCTGTAATGCAGGACGCCATTAAGTGTCTGTTTAAATTTTGGATTATTTATATTACTTACAATT
AATTAATAAAGTGGGTTTAAAAAACCT

6878/6881
FIGURE 6353

AACCTACTACGTGCGGCGGCAGCTGGGGCGGGAAGGCGGGAGCTGGGGGCGCTGGGGGCGCTGCGGCCGCTGCGG
CCGCTGCAGCCGCTGCAGCGCCAGGGTCCACCTGGTTCGGCTGCACCTGTGGAGGAGGAGGTGGATTTCAGGCTTC
CCGTAGACTGGAAGAATCGGCTCAAAACCGCTTGCCTCGCAGGGGCTGAGCTGGAGGCAGCGAGGCCGCCGACG
CAGGCTTCCGGCGAGACATGGCAGGGCAAGGATGGCAGCCCGGCGGCAGGGCCTGGCGAGGAGCGCGAGCCCCGCG
GCCGCAGTTCCCAGGCGTCTGCGGGCGCGAGCACGCCGCGACCCCTGCGTGCGCCGGGGCGGGGGGGCGGGGCCTC
GCCTGCACAAATGGGGACGAGGGGGCGGGGCGGCCACAATTCGCGCCAAACTTGACCGCGCGTTCTGCTGTAA
CGAGCGGGCTCGGAGGTCCCTCCGCTGCTGTATGGTTGGTTTCGCTAAACTGCATCGTCTGTGTCCCAGAACA
TGGGCATCGGCAAGAACGGGGACCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCA
CAACCTCTTCAGTAGAAGGTAAACAGAATCTGGTGATTATGGGTAAGAAGACCTGGTTCTCCATTCTGAGAAGA
ATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTC
TTTCCAGAAGTCTAGATGATGCCTTTGGTGGCAGTTCTGTTTATAAGGAAGCCATGAATCACCAGGCCATCTTA
AACTATTTGTGACAAGGATCATGCAAGACTTTGAAAGTGACACGTTTTTTCCAGAAATTGATTTGGAGAAATATA
AACTTCTGCCAGA

6879/6881
FIGURE 6354

TAGAGCAGACAAGCCCGCCCCGCCGCTCCTCCCAGCAGCTTCTATCCCGGAAGTTGATGCCGAGCGCAGATCGCT
TGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAACATGCCTTTGGCTA
GAGATTTACTACATCCGTCCTTGGAAGAGGAAAAGAAAAACATAAAAAGAAACGCCTAGTACAAAGTCCAAATT
CTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGATCACCCACGGTTTTTCAGCCATGCTCAGACAGTGGTTC
TTTGTGTAGGTTGTTCAACAGTGTTGTGCCAGCCTACAGGAGGAAAGGCCAGACTCACAGAAGGTATATCATTTG
GCATTCTCCAACCCAGTGATGAGATTGATGATTATAAATGTCTCTATCTTCACTGAAAAGTTTAAAGAAATCTTA
ATGATTACCAAATAACTTATCTTTCATTGTGTGCTTTTCAGTAAAGAATGGCCTGTTCAAATGGATATATTTATA
CTCTTGACCTTGCACTGAACCTCCATTGACTTATTTTTCTTAGTTTAGAACACATTTATTCACTTAGTTTGCTTAA
CTTGGAATAAATTAAGTCAGAATAGAAGCAAAAGAATAACTACATGTTATAGGACATGCAGATTTATTTATTTAT
TTATTTATTATTTTTTTTTTTTTTATTAGGAGTCTCGCTCTGTCCACCCAGGCTGGAGTGCAGTGGCGCCATCTCAGC
TCACTGCAACTTCTGCCTCCCCGGTTCAAGTGATTCTCTTGCCCTCTGCCTCCCCAAGTAGCTGGGACCACAGGCGC
GTGCCACCATGCCTGGCTAATTTTTTGTATTTTAGTAGAGGTGGGGTTTCACTGTGTTAGCCAGGATGGTCTTG
ATCTCCTGACCTCATGGTCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGA

6880/6881
FIGURE 6355A

CACAACCGTGACAGACTGCCATTCTCTGAGTCTCTTCTGGCCATGGGCCCCCGAGCCGTGAGCGTCGGGCAGGCG
CGGTACAGAACACCAACGACAGCAGCGCCCTCAGCAAGCGTTCCTTGGCCGCGCGCGGGTACGTGCAGGACCCCT
TTGCCGCGTTGCTGGTTCCGGGCGCGGCGCGCCGCGCACCGCTCATTACCGAGGCTACTACGTCCGCGCACGCG
CCGTGAGGCACTGCGTGC GCGCTTTTTTGGAGCAGATTGGCGCGCCCCAGGCCGCGCTTCGCGCGCAGATCTTGT
CTCTCGGCGCTGGCTTCGACTCGCTCTATTTTCGCTTAAAAACCGCGGGCCGCTGGCCCCGGGTGCAGTCTGGG
AGGTGGATTTCCGGACGTGGCGCGGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGCGTTAACCG
GGCCTTTTCGAGAGGGGGGAGCCCCGCTCCGCGCTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACT
TGCGGCAGCTCCAGCGAGTGGAGGAGGCCCTGGGCGCGCGGGGCTCGACGCAGCCTACCCACTCTGCTCCTGG
CCGAGGCGGTGCTGACCTACCTCGAGCCGAGAGTGC CGCGGCCCTCATCGCTGGGCAGCCAGCGTTTTCTTA
ATGCCCTTTTCGTGGTCTATGAGCAGATGAGGCTCAAGACGCCCTTTGGCCAGTTTCATGCTGCAACATTTTCGGC
AGCTAACTCCCCCTGCATGGCCTGGAGCGTTTTCCTGACGTGGAGGCGCAGCGCGCGCTTCCTTCAAGCTG
GCTGGACCGCTGCGGTGCGGTGGACATGAATGAATTCTATCACTGCTTTCTTCCCGCAGAAGAACGCCGGCGGG
TGGAAATATGAACCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGC GCGCCATTATTTTCATTCTGGCAGCTT
CTAGGGGAGACCCCTCTCCACACCCCTAGTGTTTCCATCCTCAGAGGCATTTCTCGCGTAAATCTGCTTCGC
CTTCAGGGGTATTTCCCTGCCAGCGTAGTCAGTAGCGAGGGCCAGGTCCCAAACCTGAAGAGATATGGCCACGCCT
CTGTCTTCTTGAGCCCAGACGTTATTTCTCAGTGCAGGAGGATTTGGAGAGCAGGAGGGGCGGCACTGCCGAGTGA
GCCAGTTTCACTTGCTCTCAAGAGATTGTGACTCTGAATGGAAAGGCAGCCAAATAGGCAGTTGTGGGACTGGAG
TTCAGTGGGATGGACGCGCTTATCACACCATGACAAGACTCTCAGAGAGTGGGTTCTGGTTCTGGGAGGGAGAC
TGTCCCCAGTAAGTCCAGCCTTGGGGGTTCTCCAGCTTCATTTTTTAAGAGTGAGGATAATAACTGAGGACC
TGAAAGTGACAATAACAAAGGCTGGCCGAAAGGATGATTCCACTTTGTGTTGTGGCGGCATTCAACAACAGAAG
TGTCTGTGAGAATCAGGAATATTTGTTTGTGTATGGGGGTCGAAGCGTGGTGGAACTGTACTAAGTGACTGGC
ATTTCTCTCATGTAGGGACAATGGCTTGGGTGAGGATCCAGTGGAGGGAGAAGTACCTGAAGCCCGGCATTCTC
ACAGTGCCTGCCTTGGCAAGGGGGAGCCCTTATTGCTGGAGGTCTCGGGGCTTCTGAGGAGCCATTGAACTCTG
TGCTCTTTCTGAGACCAATCTCTTGTGGATTCTCTGGGAGTCAGTAGACATCCAGCCTCCCATTACCCCAAGGT
ACTCCACACAGCTCATGTGCTCAATGGAAAGCTGTTACTGGTTGGAGGGATCTGGATTCACTCTCTCATTTTC
CTGGAGTGACTGTGATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGACACAACATATGTCCATGGC
CATTAATGTTACACAACCATAGTATCCTTCTTCTGAAGAGCAACAGCTCCTGCTCCTTGGAGGTGGTGGGA
ACTGCTTTTCTTTGGTACCTACTTCAACCCCATACAGTCACATTAGACCTTTCTTCTTAAGTGTGGGCACT
AAGGACTGGACTAATATTCAGGACCCACTAAAGTAGACAATAAGTTTTCCACAAATAGGATGACCCCTTAGCTA
TAGATACTGCCACTCCTCCTTTCCCATCCTTTTTTCCCTTAGCACTATTCAGTGCAAAAAGTGAAAAAGGTTG
GTAAAAATAGGTAAAAATACCTAGAAACAATCACTACAGAAAACAGCTGAAGACAGTGGCCATGCAGTCCGAGAGGA
GTAGTGGTCTGCCTCTAATTTCTAATCTAAGTTCGTTTATTGAGTTACAGTGGTCTTTAGTAAAGTAAAAAAT
TTCCCAATCCCAGGCTTGTGATTTGAGATGGTACCTTAGAAAAAGTTACACGCAGTTCGTTGGTTGAATATATT
TGAGATGGTACCTTAGAAAAAGTTTACGCAGATCCTTGGTTGAATATAGTTGAGGGAGCGTAGTATTGACAATT
CTTCATGTAGGAAACCTGAAATGAACACAGTCACAGTTTGATTAAAAACATTGTCTGTTTGTGCAACAGAAAAC
TCGGATAGTTTTTAACAACAGGAAACACTTGTAGGACTTCTTTTACCAACATACTTTTTAAATGTTTTGCTATTGG
TTCCATATTTATTTAGATTTATAAGTGTCAATAAAGCAAACCTTTTGATGCCTCAATTCATTTGCACGGGGTATA
ATAATGTTTTGTTCCAGATATACTCTCCACCTTTCACTGTCTGTGCTCCAAGAGGCTGACCTTTATGGGCTGCA
TCAAGGAGCTCTCTTTACTTTTTGGTTGAGTTCACCAAGTCAGAGGCACCAGAGGGGAATGGGGGCAAAAAGAAG
AGTGAGAGTGAGTTGGTATTTATTTCCCAATCTTCCCTGTTGGTTTGCAAGTTGGCAGTGGCAGCATTCTCTG
TCAAAGGCTACAGCTCCTGCCGTGTAATCCTTTCTGAAGACAGAGTTCTAATTCTGCATCATCCCAGGTTTTCAG
TAATTGTTCTTTACTTCACCTTTTCAGGCCTAGGAGTTGTGATGGCTCTTGTAGACCTGAAGTGTACTGTCC
AATGTGGTAGCTATTGACAACATGTGACTATTTAAACGAATTAATAAATCAGTGGCTTAGTCACATTGACCACA
TTTTAAGTGCTTAATAACTATGTGTGGCTTTGGCTACTGTATTAGACAAATGATAGTATGTAACATTTTCATCGTTA
CAGAAATTTCTACTGGACACTGCTGACTGGATATCTTGACTTGGTTTCCCTTAACCTACTCAGCCCCCTTATAGT
TAGCATCCCATTAACTCAATTATCCCTTTTATATGGGAATCTGTTGCCTAGTGAGCCATGTGAGATCAATGAAA
TAGCTATTATCCTTTAAATTTGAGCCTTAATTTGTATCTAAATATGCATACCTTGTGAAATATACACCTCAA
AAATGTAGTGGCTTTGGTGGTAATAAGTGTATTACTTTAGTATTTCTTCTTAGTCCTAGAAACCTTAGTAGTTT

6881/6881
FIGURE 6355B

TCATTCTACAAGTGCCTAAATGATTATTATGAACCATCATTGATGACAAATTGCATCCTTTATTCTATTAATTT
TGCATATAAATGGATGTGAAAGGTGATTAATATAAAAACCAAGTAGCAAACACAAACCTAAGTGTATGGAGAGGA
CAGTCTTGGCTCTGTTAGATGAAGCCTCCCCGGGGGAGACCAGCTGAATGAGGGTTGTGGTATAGGCTGGGCATG
GTGGCTCAGCCTATAATTCCAGCACTTTGGGAGGCCAAGACAGAAGGATCACTTAAAGCCAGGAGTTTAAGACC
AGCCCAGGCAACAAAGTCAGATCCCCATCTCTACAAAAAATAAGTAGGCACGGTGGTGTGTGCTTGTAGTCTTG
GATACTCTGGAGGCTGAGGTGATAGTGAGCTGTGATTGTGCCACTGCACTCCTGCCTGGTTGACAGAGTGAGACC
CCGTCTCTTAAAAAGAAAAAAAAAAAAAGGTTGTTGTCCAACCTCAGCTTTCCTGATACTTTGTAAGAGCCATTTT
TAGGGAAAGCATTGGTTATGGCTATGACTGAGTCCTGGGAAACAGGGCTTATTACAGCTGGGAAGACATCTGGCA
AGGCGATCAGTGGGCCAGGTAGTAGAAAACGGCAGGGAATATGATCAGCAGGAGAAAATGGCTGTTCTGTATTT
CCTGTTTCTAAGTTTACTACAGCACACCCAGCTTTCAGGAGCAGATAAAAGCAGAACACTGTGATGAGGCCAGG
CGCAGTGGCACATGCCTTGATCCCAGCACTTTGGGAGGCCAAGGCTGGCAGATCACTTGAATCAGGAGTTGGAG
ACCAGCCTGGCCAATATGGTGAAACTCCGTCTCTCCCCAAAAAAAAAAAAAAAAA